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(57) Abstract

This invention provides a nucleic acid fragment encoding a gene product or portion thereof and comprising any one of: (a) a sequence selected from SEQ ID Nos 1 to 1193 from the attached sequence listings; (b) an allelic variation of a sequence as defined in (a); or (c) a sequence complementary to (a) or (b). The invention includes uses of such fragments, and gene products corresponding thereto.

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HUMAN NUCLEIC ACID FRAGMENTS, ISOLATED FROM BRAIN ADRENAL TISSUE, PLACENTA OR BONE NARROW

This invention relates to new nucleic acid fragments encoding gene products or portions thereof, which fragments are obtainable from human nucleic acid populations, individual members of such populations being present in widely varying amounts.

Situations are increasingly arising in which it is necessary to study complex nucleic acid or polynucleotide populations. For example, it is now widely appreciated that an invaluable resource could be created if the entire sequence of the genomes of organisms such as man were determined and the information available. The magnitude of such a task should not, however, be underestimated. Thus, the human genome may contain as many as 100,000 genes [a very substantial proportion of which may be expressed in the human brain (Sutcliffe, Ann. Rev. Neurosci. 11:157 (1988))). Only a very small percentage of the stock of human genes has presently been explored, and this largely in a piecemeal and usually specifically targeted fashion.

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There has been much public debate about the best means of approaching human genome sequencing. Brenner has argued (CIBA Foundation Symposium 149:6 (1990)) that efforts should be concentrated on cDNAs produced from reverse transcribed mRNAs rather than on genomic DNA. primarily because most useful genetic information resides in the fraction of the genome which corresponds to mRNA, and this fraction is a very small part of the total (5% or less). Moreover, techniques for On the other hand, even generating cDNAs are also well known. supposing near perfect recovery of cDNAs corresponding to all expressed mRNAs, some potentially useful information will be lost by the cDNA approach, including sequences responsible for control and regulation of genes. Nonetheless, the cDNA approach at least substantially reduces the inherent inefficiencies resulting from analysis of repeated sequences or non-coding sequences in an approach which depends upon genomic DNA sequencing.

Recently, the results of a rapid method for identifying and characterising new cDNAs has been reported (Adams, M.D. et al., Science 252, 1991, pp 1651-1656). Essentially, a semi-automated sequence reader was used to produce a single read of sequence from one end of each of a number of cDNAs picked at random. It was shown, by comparing the nucleic acid sequences of the cDNAs (or the protein sequences produced by translating the nucleic acid sequence of the cDNAs) to each

other and to known sequences in public databases, that each of the cDNAs picked at random, could be unambig sly classified. could be classified as being either entirely new or as corresponding, to a greater or lesser extent, to a previously known sequence. cDNAs identified in this way were further characterised and found to be useful in a variety of standard applic ions, including physical mapping. Unfortunately, such a process is insufficient. The longer the process is pursued with any given population of cDNAs the less efficient it becomes and the lower the rate of identification of new clones. In essence, as the number of cDNAs which have already been picked rises, the probability of picking a particular cDNA more than once increases. This difficulty is exacerbated by the wide range of abundancies at which different cDNAs can occur, which abundancies can vary by several orders of magnitude. Thus, whereas some sequences are exceedingly rare, a single cDNA type may comprise as much as 10% of the population of cDNAs produced from a particular tissue (Lewin, B. Gene Expression, Vol. 2: Eukaryotic Chromosomes, 2nd ed., pp. 708-719. New York: Wiley, 1980). The need to avoid missing rarer species in any given population presents a considerable problem.

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Various approaches (so-called "normalisation" techniques) have been tried in addressing the problem of increasing the efficiency of examination of a mixed nucleotide population, for example, such a population as is to be examined in human genome sequencing.

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Thus, a standard PCR protocol can be used to amplify selectively cDNAs which are present at extremely low levels, if there is information about the sequence of those cDNAs. If not, a primer specific to the desired cDNA cannot be constructed and the desired cDNA cannot be selectively amplified. The standard PCR method is therefore inadequate if it is desired to characterise a number of unknown genes.

A second approach involves hybridization of cDNA to genomic DNA. At saturation, the cDNAs recovered from genomic/cDNA hybrids will be present in the same abundance as the genes encoding them. This will provide a much more homogenous population than the original cDNA library, but does not entirely solve the problem. In order to reach saturation in respect of the very rare sequences, it will be necessary to use huge quantities of cDNA, which need to be allowed to anneal to large amounts of genomic DNA over a considerable periods of time. Furthermore, cDNAs which are homologous to genes which are present in multiple copies in the genome will be over-represented.

A third approach exploits the second order reassociation kinetics of cDNA annealing to itself. After a long period of annealing, the cDNAs which remain single stranded will have nearly the same abundance, and can be recovered by standard PCR (see Patanjali, S.R. et al., PNAS USA 88, 1991, pp. 1943-1947; Ko, M.S.H., NAR 19, no.18, 1991, pp 5705-5711). The methods disclosed in these two publications, however, suffer from notable disadvantages. They are entirely dependent on the stringent physical separation of single stranded and double stranded DNA, require an elevated number of manual manipulations in each reaction, and necessitate protracted hybridisation times (up to 288 hours in the method of Patanjali et al.)

Yet a further approach in "normalising" a nucleotide population is described in co-pending British Patent Application No 91 15407.0, filed 17th July, 1991 by MRC, and involves a PCR process in which a mixture comprising а heterogenous DNA population and appropriate oligonucleotide primers is first formed and the DNA denatured, but before effecting a conventional PCR protocol the conditions are altered to allow the denatured strands of the more common DNA species to reanneal together, whilst avoiding annealing of primers to the DNA strands. By this means, rarer species can subsequently be amplified in preference to the more common species.

This PCR normalisation method in general comprises the steps of:

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- (a) preparing a mixture comprising a heterogenous DNA population and oligonucleotide primers suitable for use in a PCR process, in which the DNA is denatured;
- 30 (b) altering the conditions to allow the denatured strands of the more common DNA species to reanneal, while preventing the annealing to the primers to the DNA strands;
- (c) further altering the conditions of the mixture in order to allow the primers to anneal to the remaining single-stranded DNA comprising the rarer DNA species; and
 - (d) carrying out an extension synthesis in the mixture produced in step (c).

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Advantageously, the method consists of a cyclic application of the above four steps.

It will be appreciated that the conditions may be altered by the alteration of the temperature of the reaction mixture. However, any conditions which affect the hybridisation of complementary DNA strands to one another may be varied to achieve the required result.

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Because the reannealing efficiency of any given DNA species will depend on the product of its concentration and time, the more abundant the sequence the greater the extent to which it will reanneal in any given Once a DNA species has reached a certain threshold time period. concentration it will no longer be amplified exponentially, as a significant amount will have annealed to the double stranded form before the priming step. Thus, as each individual DNA species is amplified by the process to its threshold concentration, the rate of amplification of that species will start to tail off. Eventually, therefore, all DNA species will be present at the same concentration.

The length of the reannealing step will determine how much DNA is present at the threshold concentration. Preferably, therefore, the duration of the reannealing step will be determined empirically for each DNA population.

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In the PCR normalisation process in general, the DNA primers may be adapted to prime selectively a sample of the total DNA population. By using primers which will only prime a sample of the population, only that sample will be amplified and normalised. The total quantity of DNA generated will thereby be reduced, which means that the cycling times can be kept low. This ensures that the method is applicable to complex DNA populations such as cDNA populations. In addition, a first primer can be used which is adapted selectively to prime a sample of the total cDNA population, and a second primer which is a general Advantageously, the general primer is oligo dT (each primed cDNA will then be replicated in its entirely, as the oligo dT primer will anneal to the poly-A tail at the end of the cDNA).

35 In co-pending British Patent Application No 92 14873.3, filed by MRC 13th July, 1992, a new process is described which allows the study and identification of the individual members of a mixed or heterogenous population of nucleotide sequences perhaps of varying abundance. preferred embodiments of the said process, the starting nucleic acid 40 population is treated by:

(a) subjecting the nucleic acid to the action of a reagent,

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preferably an endonuclease which has its cleavage and recognition sites separated, which reagent cleaves the nucleic acid so as to produce double stranded cleavage products the individual strands of which overlap at cleaved ends to leave a single strand extending to a known extent;

- (b) ligating the cleavage products from (a) with a population of adaptor molecules to generate adaptored cleavage products, each of which adaptor molecules has a cleavage product end recognition sequence and the population thereof encompassing a range of adaptor molecules having recognition sequences complementary to a predetermined subset of the sequences of the cleavage-generated extending single strands; and
- (c) selecting and separating only those adaptored cleavage products resulting from (b) which carry an adaptor of predetermined recognition sequence.

A preferred endonuclease for use in step (a) of the above process is Fok 1.

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An important feature of this process is the use of adaptor molecules. The adaptors used must have "overhanging" fragment recognition sequences which reflect or are complementary to the extending cleavage-derived sequences which the adaptors are designed to react with. It is also preferred that the adaptors used should end with a 5' hydroxyl group. The avoidance of a 5' phosphate group removes the risk of inappropriate ligation involving the adaptors.

Adaptor molecules may also contain a portion permitting specific sequence selection and separation (as in step (c) of the process) when a sequence is attached to the adaptor. For example, an adaptor can carry biotin, thereby permitting advantage to be taken of the biotin/avidin

reaction in selecting and separating desired adaptored molecules. Additionally, adaptors preferably comprise a known and selected

sequence such that specifically isolated adaptored molecules can be amplified by known techniques (such as PCR) using a primer

complementary to the core sequence.

40 Preferably the adaptors are short double-stranded oligonucleotides which can be joined to the ends of cleavage products. They will have been chemically synthesised so that their sequence can be predetermined

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and so that large concentrations can be easily produced. They may also be chemically modified in a way which allows them to be easily purified during the process. As mentioned above, ideally their 5' ends will be unphosphorylated so that once joined to fragments the adaptored end of the latter will no longer be able to participate in further ligation reactions.

It is preferred that the adaptor cleavage product end recognition sequences are on the 5' end of the longest oligonucleotide strand making up the preferred adaptor molecules, are at least 3 nucleotides in length and with totally random bases at the single-stranded position(s) two nucleotides in from the 5' end. This then allows selection to be performed both during the joining reaction and during subsequent priming reactions. Then, because the final degree of selection is a result of the product of the degrees of selection achieved at these two stages, maximum selection can be achieved per adaptor/primer available.

Adaptor strand extensions on the 5' end of the longest oligonucleotide also facilitate the use of modified oligonucleotides for separation purposes. Preferably, the short oligonucleotide will be modified at its 5' end. This has the double benefit of requiring just one modified oligonucleotide for all possible single-stranded extensions that are used, and also placing the modification at a position where it cannot interfere with ligation or subsequent priming reactions.

Although only one type of adaptor is required per ligation reaction, it is preferred that adaptors covering all possible reactions in a chosen subset of sequences be present, because then the opportunity for fragments in the chosen subset to ligate to each other is minimised. It is also preferred that the chosen specific adaptor, carrying a predetermined recognition sequence, should not only be different from the other adaptors in its single-stranded extension, but also different in the rest of its sequence since this allows orientation to be introduced which is useful in subsequent steps. It is therefore also preferred that this adaptor has a modified oligonucleotide to facilitate its separation with the cleaving products to which it joins.

The above "adaptoring" process can be used to generate categories or subsets of sequences by making some of the adaptors specific in some way, and selecting and separating as in step (c). In this way subsets of sequences can be provided depending upon the specific adaptor

chosen, e.g. for use in subsequent nucleotide sequencing. This facilitates, for example, the identification of a large population of sequences by permitting a rational approach to splitting such populations into subsets, each of which subsets can be examined in turn.

In the light of these developments, the present invention now provides a nucleic acid fragment encoding a gene product or portion thereof and comprising any one of:-

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- (a) a sequence selected from SEQ ID Nos 1 to 1193;
- (b) an allelic variation of a sequence as defined in (a);or
- 15 (c) a sequence complementary to (a) or (b).

In another aspect, the invention provides a nucleic acid sequence as set out in any one of SEQ ID Nos 1 to 1193, or a complement or allelic variation thereof. Preferred sequences exhibit no more than 90% homology to a human sequence known per se.

In a further aspect, the invention provides a nucleic acid fragment comprising a portion of a sequence as defined above of sufficient size such that a probe of the same size and exhibiting complementarity to said portion can hybridise to said sequence. Preferably, such portions are at least 15 bases in length. It will be appreciated that minor mismatches in the aforesaid "complementarity" are not excluded provided hybridisation can still occur. In general, hybridisation conditions are within the choice of the skilled person, but reference can be made, for example, to the following: Melting temperature of hybrids -Bolton, E. T. and McCarthy, B. J. Proc. Natl. Acad. Sci, 48 p1390 (1962). Effect of formamide on lowering melting temperature - Casey, J. and Davidson, N., Nucleic Acids Res. 4, p1539 (1977). Effect of imperfect homology - Bonner, T. I. et al., J. Mol. Biol. 81, pl23 (1973). General - Meinkoth, J. and Wahl, G. Anal. Biochem. 138, p267 (1984). Oligo hybridization and washing - Lathe, R. J. Mol. Biol. 183, P1 (1985).

The present invention also envisages DNA constructs comprising 40 fragments or sequences as referred to above with a control or regulatory sequence.

The invention includes such DNA constructs using a gene system known in the art ligated to a sequence or fragment of the invention so as to enable, upon expression, the provision of a fusion polypeptide. Preferably, an endopeptidase recognition site is provided such that when the sequence or fragment is expressed it is expressed in frame with a known protein with the boundary being a cleavage site for an endopeptidase with a rare cutting site. The known protein can then be affinity purified, and the peptide corresponding to the fragment or sequence in accordance with the invention may be released by the endopeptidase. Alternatively, the whole protein can be used to raise antibodies which can then be screened for those directed at polypeptide corresponding to the fragment or sequence of the invention.

Since the present fragments and sequences can be used to produce, inter alia, corresponding genes, whether by isolating them, by synthesis or otherwise, such use and the resulting DNA fragments comprising genes are further aspects of the invention.

Yet another aspect of the invention is an expression vector comprising a fragment, sequence, gene-comprising DNA fragment, or DNA construct, as above, positioned such that that nucleic acid sequence which encodes the polypeptide corresponding to said fragment, sequence or DNA fragment is in operable reading frame with a control or regulatory sequence.

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Other aspects of the invention are host cells incorporating a sequence, or fragment, or gene-comprising DNA fragment, or DNA construct, as above, as a heterologous part of the expressible genetic information of the cell. The production of such modified host cells can be achieved using methods known in the art. Such modified host cells can be used to express corresponding proteins, and these materials lend themselves in turn to the preparation of corresponding monoclonal or polyclonal antibodies using standard techniques.

Also included in this invention are such antibodies. Reference can be made, inter alia, to the following literature: Monoclonal antibodies, Cambell, A. M. Laboratory Techniques in Biochemistry, and Molecular Biology Ed. Burdon, R. H. and van Knippenberg, P. H. vol 13. Elsevier Amsterdam 1984. Goding, J. W., Monoclonal antibodies: Principles and Practice, 2nd Edition, academic Press, London 1986. Kipps, T. J. and Herzenberg, L. A., Handbook of Experimental Immunology: Applications of immunological methods in biomedical sciences, 4th edition Ed. Weir,

D. M. et al., p108 Blackwell scientific Publications, Oxford. Harlow, E and Lane, D. Antibodies, A Laboratory Manual, Cold spring harbor Laboratory, Cold Spring, New York.

5 Expression in an appropriate higher eucaryotic host may be important to ensure correct protein folding and also activity. Expression to avoid copurification of toxic products can sometimes be better performed in organisms approved for human consumption, eg prokaryotic Bacillus subtilis, eurkaryotic yeast, mammalian cows milk vectors, and other methods known in the art.

The invention also includes novel gene products or portions thereof encoded by a fragment, sequence or gene-comprising DNA fragment of the invention.

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It will be appreciated that the sequences of the present invention collectively have utility based, inter alia, upon their common origin, and hence they can effectively be considered together rather than as separate entities. It is convenient to represent them as separate sequences, because this is how they were produced and serves as "punctuation" between the different functional entities which each sequence represents. However, the sequences could just as easily have been presented as a continuous sequence derived by placing them end to end in the order in which they were produced, with a separate indication of where the beginnings and ends of the component sequences are.

In contrast to investigations hitherto, where gene fragments (sequence fragments) could only be identified through some known characteristic [for example: their homology to a fragment which largely encodes amino acids identified by sequencing a previously isolated peptide or is the antisense of that coding sequence; or them having at least partial homology to previously characterised nucleic acids; or them having ability to encode expressed proteins which could later be detected by functional assays of the cells expressing those proteins or by using antibodies which had been previously raised against the proteins to detect their expression, Sambrook J., et al., Molecular Cloning CSH Press 1989], the sequences and fragments described by the present invention are entirely underivable and unpredictable from the prior art, but are nonetheless clearly of great value for various purposes.

Thus, such sequences, by comparing them to sequence databases, can be

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used as a means for determining the existence of new members of existing gene fallies, new human genes when previously only non-human and new genes when previously no genes were known genes were know (Karlin, S. and Altschul, S. F. Proc. Natl. Acad. Sci. 87 p2264-2268 (1980)). In all cases, this allows the isolation of the corresponding and hence enables the manufacture of genes and their products, molecules of potential biological interest by recombinant means. Screening libraries of known materials or hitherto unexplored source materials for biological efficacy is now an important industrial activity in the search for new therapies and therapeutics. sequences have already been found to have counterparts in gene families or in non-human genes then knowledge about biological efficacy may already be apparant. For example, new receptors or receptor agonists/antagonists may exhibit differences to known instances of these molecules, and such differences could make them more suitable as therapeutics by, for example, exhibiting binding characteristics which are more in keeping with avoidance of toxicity. Reference can be made, for example, to polymorphic dopamine receptors and the implications for mental health (Iversen, L. Nature 358, p109 (1992), and Van Tol, H. M. M. et al., Nature 358, p149-152 (1992)). Where absolutely required, realisation of full length cDNAs for expression can be achieved by using the sequences to screen (by hybridisation) suitable cDNA libraries containing full length clones (D'Alession, J. M., et al., Focus (Gibco B.R.L) 9 pl (1987)). Alternatively, the sequences can be used to design primers suitable for obtaining the missing sequences by PCR or other amplification methods (Frohman, M. A., Dush, M. K. and Martin, G. R., Proc. Natl. Acad. Sci. 85 p8998-9002 (1988)).

Appropriate use of the sequence fragments in antisense or triple helix (Griffin et al., Science 245 p967-971 (1989)) applications will be useful for identifying manipulable targets related to disease. For example, viruses have been inhibited by antisense RNA to their mRNAs (Chang, L-J., and Stoltfuz, C. M. J. Virol. p921-974 (1987)). A similar effect could be achieved by targetting the expression of cellular proteins which are essential for growth or maintenance of the virus.

Partial or full length cDNAs have great utility once expressed. The manner of expression can be selected by one skilled in the art to suit the intended application. Expression of full length cDNAs is typically required for biological activity. Procaryotic, and lower or higher eucaryotic hosts may be selected as the host for expression and higher

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eucaryotes may be preferred to ensure correct modifications, for example, glycosylation in vivo, when this proves to be important. Expression can be ensured by situating the cDNA appropriately to signals for expression (Amann, E. and Brosius, J. Gene 40 pl83 1985), Shimuzu, Y et al., Gene 65, pl41 (1988), Straus, D. and Gilbert, W. Proc. Natl. Acad. Sci. 82, p2014 (1985)). Such signals may include a promoter for transcription, which may itself be regulatable.

The proteins thus-expressed can be screened for activities of therapeutic or commercial value. It may be that the proteins have to be first isolated for this purpose or can be assayed in situ. It may be desirable that some means of stabilising the expressed protein is employed. This can be achieved, for example, (and as indicated earlier) by expressing in frame as part of a fusion polypeptide (Smith, D. B., et al., Proc. Natl. Acad. Sci. 83 p8073 (1986)).

Useful antibodies can be raised against the expressed proteins. It is commonly not an absolute requirement that full length proteins are produced, although this may influence the quality of the antibodies produced. Peptides as short as 8 or 9 amino-acids in length can be used as antigens (Germain R., N. Nature 353 pp605-607 (1991), Rudensky, A., Y., et al., Nature 353 p622-627 (1991)). Immunogenic peptides could simply be synthesised using the amino-acid sequence translated from a sequence or fragment of this invention. It is desirable, although not absolutely required, that some means of producing purified antibodies is adopted. When fusion polypeptides are used to raise antibodies, an affinity matrix specific for the generic part of the protein allows the fusion polypeptide to be immobilised (Smith, D. B., et al., Proc. Natl. Acad. Sci. 83 p8073 (1986)). The immobilised polypeptide can then be used to affinity purify the antibodies. Antibodies to both the generic part of the fusion polypeptide and the part of interest are produced. When these need to be discriminated between, a different affinity column can be used to remove only those antibodies specific for the generic part of the polypeptide. Alternatively, and as mentioned earlier, it can be arranged that the boundary between the two separate protein components of the fusion polypeptide has the recognition sequence for an endopeptidase with a rare cutting site. The peptide of interest can then be released from the affinity purified polypeptide by the action of the endopeptidase (Nagai, K., and Thogersen, H., C. Methods Enzmol. 153 p461-481 (1987). Another alternative is raise monoclonal antibodies against the purified protein.

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The antibodies can be used for localising in situ, or quantifying in samples through, for example, ELISA or RIA assays, peptides against These uses are particularly beneficial when which they were raised. the results of the assays can be correlated to a disease condition, eg For example tumour markers may be found and used to target The antibodies can also be used to detect or therapeutic agents. monitor markers of undifferentiated growth, infection, cardiovascular or immune disease or a therapeutic response. When the antibodies recognise cell surface proteins they can be used in isolation or in combination to isolate particular populations of cells. These in turn can be used to isolate yet more cDNAs which will be enriched for yet more of such surface markers for the population, which, if similarly screened, will permit yet further subdivision of the population. Ultimately, panels of antibodies which can describe particular disease states will accrue. Such antibodies could be tailored for forensic applications as well as diagnostic purposes and disease monitoring.

The sequences or fragments can also be used for genetic analysis and mapping, for example, to diagnose the likelihood that a given individual is predisposed towards a given genetic disease. In the event of a sequence co-locating, genetically, with a disease gene, it can be used for the derivation of new disease therapies bases upon precise genetic knowledge. Such therapies can include, for example, the techniques of so-called "gene therapy" (Dusty Miller, A. Nature 357 p455-460 (1992)).

Antibodies can be produced against the protein of a genetic disease with sufficient discriminating power to discriminate between diseased and non-diseased states (Caskey, T. Genome Sequencing Conference, Hilton Head, S. Carolina (1991)). This would be useful for reducing the dependence of such tests on nucleic acid-based screens. Such antibodies also have the advantage of allowing detection of faulty expression of the protein, for example levels of expression which may be important for development of the disease in slow onset conditions.

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Also very important is that not all cDNAs are likely to be found by conventional means, whereas the present sequences are, in one sense, "comprehensive". The use of the class of cDNAs which corresponds of necessity to truncated clones increases the chances that part of a cDNA will be cloned free of any sequences that could otherwise compromise it from being cloned. Sequence obtained can then be used to generate PCR primers from which the remainder can be obtained without having to

clone.

(1985)).

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This invention will now be further described and illustrated by means of the following Examples.

All oligonucleotides used in these Examples were synthesised Trityl on using an ABI 380B DNA Synthesizer according to the manufacturers instructions. Purification was by reverse phase HPLC (see, for example, Becker, C., R., et al., J. Chromatography 326, p293-299

Example 1

Human brain and adrenal tissues were obtained from a mixture of 12 to 15 week menstrual age foetuses and then snap frozen in liquid nitrogen before storing in bijou bottles in a -80°C freezer. The two types of tissue were used separately, directly from the freezer, to prepare cDNA from which restriction fragments were generated for sorting into subsets. 1g portions of each of the separate tissues were homogenised, using an Ultra-Turrax T25 Disperser (Janke and Kunkel, Labortechnik), on ice in the presence of 4M quanidinium isothiocyanate to solubilise macromolecules. RNA was isolated from each homogenate by using centrifugation to sediment it through caesium trifluoroacetate. This was performed using the Pharmacia kit according to the manufacturer's instructions, except that centrifugation was performed for 36 hours and the RNA obtained was finally desalted and concentrated by performing two ethanol precipitations in succession with two 70% ethanol washes after each precipitation. In each case, polyA+ (mRNA) was isolated from 200 to 400 μg of the total RNA by binding it to magnetic oligo-dT coated beads (Dynal). Solution containing unbound material was removed from the beads, which were washed, and then mRNA eluted directly for use. mRNA isolation was performed in accordance Yields of RNA from the beads with the manufacturer's instructions. were between 1 and 3% of the total RNA. 2 to 4 μg of the eluted RNA were used for cDNA synthesis. cDNA synthesis was performed according to the method of Gubler, U and Hoffman, (B. J. Gene 25 p263 (1983) using a Pharmacia kit according to the manufacturer's instructions. OligodT was used to prime the first strand cDNA synthesis reaction. The cDNA was purified by extracting twice with phenol/chloroform and then low molecular weight solutes including nucleic acids below ca. 300 bases were removed by passing the cDNA reaction mixture through a Pharmacia S400 spun column used according to the manufacturer's

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instructions. Running buffer for the column comprised 10 mM TrisHCl, 1 mM EDTA, 50 mM NaCl @ pH 7.5.

The column eluate was adjusted to 10 mM ${\rm Mg^{2+}}$ and then the purified cDNA was restricted by the action of 1 unit per 10 $\mu{\rm l}$ of the endonuclease Fok I at 37°C for 1 hour, so that it would be able to accept adaptors to enable fragment sorting.

The cDNA fragments were purified by two successive phenol/chloroform extractions followed by passing them through \$400 spun columns as described above.

The adaptors used were oligonucleotides 5' N4N4N4TCCTTCTCCTGCGACAGACA (SEQ ID: 1194) with the complementary strand 5' TGTCTGTCGCAGGAGAAGGA 15 (SEQ ID: 1195) and 5' AAN₄N₄TCTCGGACAGTGCTCCGAGAAC (SEQ ID: 1196) or 5' TTN₄N₄TCTCGGACAGTGCTCCGAGAAC (SEQ ID: 1197) each with the complementary 5' biotinylated strand GTTCTCGGAGCACTGTCCGAGA (SEQ ID: 1198). were added to 25% of the eluted material by incubating together 200 pmoles of the mixture of double-stranded adaptors in the elution buffer 20 to which had been added MgCl, to 10mM, ATP to 10mM and 0.025 units/ μ l of **T4** DNA ligase. The oligonucleotide 5 ' biotinylated GTTCTCGGAGCACTGTCCGAGA, (SEQ ID: 1198) and whichever of the complementary oligonucleotides with which it was used, each comprised 1/32 of the molar proportion total adaptors. The final reaction volume 25 was 90 μ l which was heated to 65°C for 3 minutes and then cooled to room temperature before the ligase was added. Ligation was performed for 16 hours at 12°C.

Two successive phenol/chloroform extractions were performed to remove the ligase. The final aqueous phase was passed through an S400 spun column (Pharmacia) as described above except that the column was used with 10 mM Tris pH 8.3/50 mM NaCl.

The column eluate was adjusted to 25mM Mg2+, 0.5mM dNTPs in a final volume of 200 μ l. The mixture was placed in a thermocycler (Techne MW2) and heated to 78°C for 5 minutes. At this point 10 units of cloned Taq DNA polymerase (AmpliTaq, Perkin Elmer) were added. This was followed by an incubation at 72°C for 10 minutes to fill in the unligated strand of the adaptor. After the second incubation 200 μ l of streptavidin coated magnetic beads (Dynal) prepared according to the manufacturers instructions were added to bind cDNA ligated to that of oligonucleotides which complementary 5' was to the

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GTTCTCGGAGCACTGTCCGAGA (SEQ ID: 1198) biotinylated adaptor. Bead binding was allowed to proceed at 28°C for 30 minutes with mixing every 10 minutes.

Un-biotinylated cDNAs were washed from the beads with $400\mu l$ each of 2M NaCl twice, fresh 0.15 mM NaOH four times at 28°C for 5 minutes each, water twice and finally a buffer comprising 20 mM Tris pH 8.3, 50 mM NaCl, and 25mM Mg²⁺. The beads were then resuspended in 240 μl of the final buffer including additionally 0.5 mM dNTPs and divided into 4x60 μl .

Four of the 60 μ l aliquots, two from each tissue, were processed further specifically to prime and copy a subset of the immobilised, adaptored fragments. 2 pmoles of the primer 5' CTGTCTGTCGCAGGAGAAGGAA (SEQ ID: 1201) were added to each of two aliquots, one from each tissue. 2 pmoles of the primer 5' CTGTCTGTCGCAGGAGAAGGAG (SEQ ID: 1202) were added to each of the other two aliquots. 2.5 units of Taq DNA polymerase were added to each reaction and 16 cycles of alternate denaturation at 95°C for 30 seconds, annealing at 63°C for 2 minutes and polymerisation at 72°C for 3 minutes was performed to accumulate the selected single-strands in solution.

On completion of the DNA synthesis reactions a further 30 μ l of resuspended beads were added to each reaction to remove the biotinylated fragments. The reaction was incubated at 28°C for 30 minutes mixing every 10 minutes to ensure that the biotinylated strands were bead bound. Each aqueous phase containing the newly synthesised strands was then removed and extracted with phenol/chloroform twice to remove the enzyme before being further purified by passing through an S400 spun column equilibrated with 10 mM Tris pH 8.3/50 mM NaCl as described above.

Rounds of PCR amplification of subsets of the selected fragments were performed by using the original primer in each case, together with one of the primers 5' GTTCTCGGAGCACTGTCCGAGAG (SEQ ID: 1199) or 5' GTTCTCGGAGCACTGTCCGAGAC SEQ ID: 1200). This simultaneously rendered the fragments double-stranded and increased the amounts of available material. It was not known how many cycles of amplification would be required at this stage, since each primer pair would be expected to behave differently. It was therefore necessary directly to determine a suitable number empirically by using standard agarose gel electrophoresis to examine the reaction products after a given number

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of cycles. In some cases, to avoid the accumulation of non-specific products, it was necessary to perform an initial 5 cycles of amplification with both of the primers present at 2 pmoles each. All reactions were performed using 8 μ l or 12.5 % whichever was the larger but not exceeding 12 μ l of the column effluent above. Reaction conditions were adjusted to 20 mM Tris pH 8.3, 50 mM NaCl, 25mM Mg²⁺, 0.5mM dNTPs and 2.5 units of Taq DNA polymerase in a final volume of 40 μ l. Apart from when an initial amplification with 2 pmoles of each primer was performed, 20 pmoles of each primer were used. Cycles of amplification were performed at 95°C for 30 seconds, 65°C for 1 minute and 72°C for 3 minutes.

For the purposes of cloning, selected cDNA was amplified as described immediately above, except that the reaction was not monitored. Instead, the number of cycles which had previously been shown to just give rise to all observable products plus another 4 cycles were performed. In addition, an extra 72°C for 10 minutes incubation was performed after the last cycle.

The products of the reaction were then prepared for directional cloning. Water was added to adjust the final reaction volume to $60~\mu l$. Enzyme was removed by two successive phenol/chloroform extractions. The final aqueous mixture was passed through an S400 column as described above, except that it had been equilibrated with 10 mM Tris HCl pH 7.5, 50mM NaCl.

For directional cloning, advantage was taken of the different known sequences introduced at each end of the selected cDNAs by the adaptors in a modification of the method of Aslandis, C. and de Jong, P. J. (Nucl. Acids Res. 18, p6156 (1990)). Different cohesive ends were produced on each end by using the exonuclease activity of T4 DNA polymerase to resect from the 3' end, to the first T in each case. To 75 μ l or 75 % of the column eluate, whichever was least, were added 9.5 μ l of 100mM TrisHCl pH7.4, 100 mM MgCl2, and 9.5 μ l of 0.5 mM dTTP. 16 units of T4 DNA polymerase were added and the reaction incubated in a water bath at 37°C for 30 minutes. The enzyme was removed by extracting with phenol/chloroform, twice successively. The salt of the final aqueous phase was adjusted by passing it through an S300 column (Pharmacia) equilibrated with 10 mM TrisHCl pH 7.4, 1 mM EDTA as described above.

The E.coli plasmid cloning vector pBluescript KS+ (Alting-Meese, M. A.

and Short J. M., Nucl. Acids Res. 17 p9494) was prepared for accepting the resected cDNA by restriction cleavage at the BamHI and HindIII sites and then adaptoring the resultant cohesive ends using the specific adaptors produced by the oligonucleotide 5' AGCTCGGCTCGAGTCTG (SEQ ID: 1203) with its partially complementary oligonucleotide 5' 5 GCGACAGACAGCAGACTCGAGCCG (SEQ ID: 1204) and the oligonucleotide 5' GATCCGGCTCGAGT (SEQ ID: 1205) with its partially complementary oligonucleotide 5' CCGAGAACACTCGAGCCG (SEQ ID: 1206). Preparation of the vector and adaptoring were performed according to standard 10 procedures. Insertion of the cDNA was performed between the BamHI and HindIII restriction sites. Recombinant vectors were transformed into the host XL1-Blue (Bullock, W. O. et al Biotechniques 5 p376-378 (1987)) by the method of Hannahan, D. J. (Mol. Biol. 166 p577-580 (1983)). Suitable standard controls for the ligations 15 transformations were also included.

Post transformation procedures were as described in "Molecular Cloning", 2nd Edition (Sambrook J., Fritsch, E. F., and Maniatis, T. CSH Press (1989)). Colonies were produced by plating onto X-gal/IPTG L-agar plates containing 50µg/ml ampicillin and 10µg/ml tetracyclin. Clear colonies were picked, each into a separate well of a microtitre plate, containing 100µl of L-broth and 50µg/ml ampicillin. Growth was allowed to occur for 16 hours at 37°C. 100µl of 50% or 30% glycerol was added to plates which were archived at -20°C or -80°C, respectively.

Bacteria corresponding to those archived were used for preparing templates for sequencing by the dideoxy method (Sanger, F. Milklen, S. and Coulson, A. R. Proc. Natl. Acad. Sci. 74 p5463-5467 (1977)). 30 Bacteria for this purpose were either grown on L-agar plates containing 50µg/ml of ampicillin, prepared at the same time as they had been grown liquid culture, or after plating out from the archive. Alternatively, fresh liquid cultures were inoculated from the archive. In all cases, cDNA inserts were amplified for sequencing by PCR 35 (Saiki, R. K. et al Science 239 p487-491 (1988)). PCR was either performed using bacteria directly added to the reaction, by a toothpick, or PCR was performed using 1/50th of the plasmid isolated by preparative methods (Holmes, D. S. and Quigley, M. Anal. Biochem. 114 p193 (1981)) from the bacteria in the liquid cultures or from the 40 plates.

20 pmoles of each of the PCR primers 5' biotinylated GTAAAACGACGGCCAGT

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(SEQ ID: 1207) and 5' CGAGGTCGACGGTATCG (SEQ ID: 1208) were used in 40µl reactions containing 2.5mM Mg²+, 50 mM KCl, Tris-HCl pH 8.3 and 0.25 units of Amplitaq (Cetus). Reactions were performed at 95°C, for 1 minute, followed by 35 cycles at 95°C for 30 seconds, 60°C for 30 seconds and 72°C for 40 seconds. After the cycles, a final incubation at 72°C for 5 minutes was performed.

After PCR, standard agarose gel electrophoresis was used to determine which reactions had been successful. The biotinylated strands of successful reactions were then recovered for single-stranded sequencing by binding them to steptravidin coated beads (Dynal) and then washing, all according to the manufacturers instructions, except that the washing steps were either performed manually or performed automatically in the 96 well microtitre plate format using a Biomek robotic workstation attached to a side-arm loader (Beckman).

Dideoxy chain termination sequencing reactions were performed using the immobilised, biotinylated strands as templates and 2 pmoles of the oligonucleotide 5' CGAGGTCGACGGTATCG (SEQ ID: 1209) as primer. Reactions were performed using fluorescently-labelled terminators (Du 20 Pont) or a fluoroscein-labelled primer (Pharmacia) according to the manufacturers instructions. Reactions were analysed using automated DNA sequencers. A Genesis 2000 was used for the "Du Pont" reactions and an A.L.F. for the "Pharmacia" reactions. Bases were assigned for the Genesis 2000 reads using the manufacturers Base Caller software. 25 Files of called bases were then transferred to a SUN Network from an Apple Macintosh computer which had been used for base calling. data from the A.L.F. reads was directly transferred to a SUN network where bases were called using the public domain "trace editor software" In both cases, files of called bases were entered into a 30 SybaseTM database. Entering data entailed automatically removing vector and adaptor or linker sequences, but not editing ambiguous bases. After removal of the unwanted bases, files were automatically compared to other sequences in the cDNA database and the latest versions of the publically available databases, GENBANK and SWISSPROT. Searches were 35 performed with the "basic local alignment search tool" (BLAST) (Karlin, S. and Altschul, S. F. Proc. Natl. Acad. Sci. 87 p2264-2268 (1990)).

Sequences SEQ ID Nos 1 to 610, given hereinafter, were obtained by the above procedure.

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A second method of preparing cDNA libraries for obtaining gene fragments of the invention took advantage of the PCR normalisation process described above. Standard procedures were used to prepare mRNA from RNA that had been isolated by standard caesium chloride bouyant density gradient methods from a full term human placenta. The oligonucleotide LNotdt, sequence 5' TACGTTCGACAAGCTTGAATTCGCGGCCGC(T)₂₆, (SEQ ID: 1210) was used at 1 μ M with AMV reverse transcriptase, to prime first strand cDNA synthesis under standard conditions from 0.5 μ g of the placental mRNA. Temperatures above 65°C were used to inactivate the reverse transcriptase and then the volume of the reaction made up to 100 μ l with water.

PCRs were then performed in reactions containing 1 μ l of the diluted cDNA, 10 mM Tris-HCl pH 8.3, 40 mM KCl, 1.5 mM MgCl₂, 0.01% gelatin, 200 μ M dNTPs, 10 uCi a³²P dCTP, 1 μ M each of the primers 11ADl, sequence 5' GCC(TA)(GC)CGCCGA (SEQ ID: 1211), and LNotdT and Taq DNA polymerase. An initial denaturation period of 95°c for 90 seconds was followed either by 35 cycles of standard PCR, comprising 95°C for 30 seconds, 45°C for 30 seconds and 72°C for 30 seconds or alternatively 3 cycles of the standard PCR already described followed by 27 cycles of Cot PCR during which an additional step of 72°C for 16 minutes was placed between all of the 95°C and 45°C steps of the standard PCR. The standard PCR was followed by a single 72°C for 3 minutes step while the Cot PCR was followed by one standard PCR cycle except that the 72°C incubation was performed for 3 minutes.

Products of the PCR reaction were end repaired by adding 5 units of T4 DNA polymerase to the reaction and then incubating at 37°C for 10 minutes. Enzymes were removed by phenol extraction. The cDNA was precipitated by 70% ethanol, dried and then resuspended in NotI buffer. 20 units of NotI were used to digest the cDNA under standard conditions. cDNA was again phenol extracted and ethanol precipitated. 10% of the purified NotI cut DNA were ligated to the vector pBluescript lting-Meese, M. A. and Short J. M. Nucl. Acid Res. 17 p9494 which had been prepared as standard to receive this DNA by restricting with the enzymes NotI and EcoRV. Transformation and processing of clear colonies was performed as described above except that the host E.coli strain DH5a was used in place of XL-1 Blue.

40 Preparation of clones for sequencing, sequencing and sequence analysis of cDNAs in clones thus-produced were performed as described in Example 1.

Sequences SEQ ID Nos 611 to 772, given hereinafter, were obtained by the above procedure.

Example 3

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cDNA libraries corresponding to adult brain cortex (Clontech Laboratories, Inc., Cat No. HL10036) and adult bone marrow (Clontech Laboratories, Inc., Cat No. HL10586) prepared in lambda gt11 phage were transfected into E.colic Y1090 and plated out for colour selection of recombinant plaques ("Molecular Cloning", 2nd Edition Sambrook J., Fritsch, E. F., and Maniatis, T. CSH Press (1989)). 192 lambda Zap clones, corresponding to rhabdomyocarcoma cDNAs and a gift from C. Cooper, ICR, Sutton, were similarly plated except that the host XL-1 Blue was used.

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Clear plaques from each library were resuspended in 5 μ l of Tris-HCl pH 8, 1 mM EDTA. 2 μ l of the resultant phage suspensions were added directly to PCRs for the purpose of amplifying the cDNA inserts for sequencing. PCR was performed as described in Example 1, except that the oligonucleotides used as primers for the lambda gtll clones were 5' GGTGGCGACGACTCCTGGAGCCCG (SEQ ID: 1212) and 5' TTGACACCAGACCAACTGGTAATG (SEQ ID: 1213). Whichever of the oligonucleotides was to be used to prime the strand which would serve as the sequencing template was used in biotinylated form.

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Preparation of clones for sequencing, sequencing and sequence analysis of cDNAs in clones thus-produced was performed as described in Example 1, except that 2 pmoles of the primers that were unbiotinylated in the PCR were used as sequencing primers.

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Sequences SEQ ID Nos 773 to 1193, given hereinafter, were obtained by the above procedure.

The following are the SEQUENCE LISTINGS which comprise sequences SEQ ID

Nos 1 to 1213 referred to hereinbefore. Certain of these sequences are preferred, and are listed as such after the main SEQUENCE LISTINGS.

	(1) GENERAL INFORMATION		
	(i) APPLICANT		
	(A) NAME: MEDICAL RESEARCH COUNCIL		
· 5	(B) STREET: 20 PARK CRESCENT		
. •	(C) CITY: LONDON		
	(E) COUNTRY: ENGLAND		•
	•		
	(F) POSTAL CODE: WIN 4AL		
10	(ii) TITLE OF INVENTION: HUMAN GENOME SEQUENCE	ES	
	(iii) NUMBER OF SEQUENCES: 1213		
	(iv) COMPUTER READABLE FORM:		
15			
	(A) MEDIUM TYPE: DISKETTE		
	(B) COMPUTER: IBM PC COMPATIBLE		,
	(C) OPERATING SYSTEM: MS-DOS		•
	(D) SOFTWARE: EXTRACT		
20	(b) borrane. Extract		
	(2) INFORMATION FOR SEQ ID :1:		
*	(2) INFORMATION FOR SEQ ID :1:		•
	(i) SEQUENCE CHARACTERISTICS:	•	
•			
25	(A) LENGTH: 264 base pairs	•	
25	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		-
	(D) TOPOLOGY: linear		
30	•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1:		
	GCCGATTCGT GACCAAGAAG GCTCTGTGCA TTCGGGTTT	T CCAGGAGACT	50
35 ⁻	CAAAAGCTGA AGAAGCGAAG AAGAGCCTTA AAGGCTGCA	G CAGCAGCTCA	100
	ATAAACAAGC AAAGCGGAGG AACCCAGACA GCCCTTGTC	C AAAGCCATAC	150
40	CAATATGATC TATCTTCTAA TGTATCCATG TTGTAATTA	T ATATGTGTCT	200
	GTGTGTCG AAATCTCTAG ACATACAGAT ATATATTCA	T ATATCATATA	250

	TATATATATA CACA	264
	(2) INFORMATION FOR SEQ ID :2:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 124 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :2:	
15	AGGAACATGT GTTTATTCAT CCAGCAGTGT TGCTCAGCTC CTACCTCTGT	50
	GCCAGGGCAG CATTTTCATA TCCAAGATCA ATTCCCTCTC TCAGCACAGC	100
20	CTGGGGAGGG GGTCATTGTT CTCT	124
20	(2) INFORMATION FOR SEQ ID :3:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 333 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :3:	• .
	ACAGAGCCGA TTCTGCATCC ACTGTGGTCA ACATTTAGGA AGTTTTAAGC	50
35	TAAGATTTGC CAAATTGTAG CCTACTGGAT TCCGGTTCTC TTGACATCTC	100
	TTTCTAGTAG CCATGTCTTG CACTTCCCGA GTATAAACGA ACTGAGATGC	150
4-5	AAATTAAAAA AGGGAGGATT TAGAATAATG AAAAGAGAAA AGTCAAGAAA	200
40	GCACAATCAC TAGTGTAGAG ATAACAGAAT TTCTGAATTC CCTGAAAGCA	250

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		ATCTATATAA ATGCATGTGA AATAATACAC CAGCATCTGT GGCCCATACG	300
		TCACATATTA GGAACTGATA ACATAAGGTA AAC	333
5		(2) INFORMATION FOR SEQ ID :4:	
		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 200 base pairs	
		(B) TYPE: nucleic acid	
10		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
	•		
15		(xi) SEQUENCE DESCRIPTION: SEQ ID :4:	
		AGGGAGAAAG GAACATCCGC GAACAGCCAA AGAAATCTCA GAAGAGTCCC	50
		AUGUNGARAG GANGATOGO GANGATOGO ANGAGTOGO	50
		GGAGCTCAAG GATCAGAGTA ACACAATTTT CACTTTTTCT GTCTTTATGT	100
20			100
		AAGAAGAAAC TGCCTAGATG ACGGGGCCTC CTTCTTCAAA CAGGAATTTC	150
•		TGTTAGCAAT ATGTTAGCAA GAGAGGGCAC TCCCAGGCCC CTGCCCCCAT	200
25		(2) INFORMATION FOR SEQ ID :5:	
		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 213 base pairs	
20		(B) TYPE: nucleic acid	
30		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
			•
35		(xi) SEQUENCE DESCRIPTION: SEO ID :5:	
		(MI) DEGELOR DEBONITION DEG ID	
		ACAGAGCCAT TTGCATCCAC TGTGGTCAAC ATTTAGGAAG TTTTAAGCTA	50
			- -
		AGATTTGCCA AATTGTAGCC TACTGGATTC CGGTTCTCTT GACATCTCTT	100
40			
		TCTAGTAGCC ATGTCTTGCA CTTCCCGAGT ATAAACGAAC TGAGATGCAA	150

	ATTAAAAAA GGGAGGATTT AAGAATAATG AAAAGAGAAA AATCAAGAAA	200
	GCACAATCAC TAG	21:
5	(2) INFORMATION FOR SEQ ID :6:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 345 base pairs	4
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	•
		÷
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :6:	
•		•
	CGCAGGAGAA GGAACAGAGC CATTGTGCAT CCACTGTGGT CAACATTTAG	50
	GAAGTTTTAA GCTAAGATTT GCCAAATTGT AGCCTACTGG ATTCCGGTTC	100
20	TCTTGACATC TCTTTCTAGT AGCCATGTCT TGCACTTCCC GAGTATAAAC	150
	GAACTGAGAT GCAAATTAAA AAAAGGGAGG ATTTAGAATA ATGAAAAGAG	200
25	AAAAATCAAG AAAGCACAAT CACTAGTGTA GAGATAACAG AATTTCTGAA	250
	TTCCCTGAAA CAATCTATAT AAATGCATGT GAAATAATAC ACCAGCATCT	300
•	GTGGCCCATA CGTCACATAT TAGGAACTGA TAACATAAGG TAAAC	34!
30	(2) INFORMATION FOR SEQ ID :7:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 159 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID :7:

	TCCATTTGAC ATCGCATTTC CATAGAAATG GCCAAAGAAA GAAGGTCCTG	- 50
	GGGTTTTTTA TAGAAAGCTC AAAAAGTTCA ACCTTTGATG CTATCCCCCA	100
5	GCCCAATACA AAATATATAG AAAAAGCGAT TATTACAATA ACGCTTCAAT	150
	TTCTTTTCC	159
•	(2) INFORMATION FOR SEQ ID :8:	
10	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 124 base pairs	
	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :8:	
20	(XI) SEQUENCE DESCRIPTION: SEQ ID :0:	
	ATATTTCAAT CGAACAAAA GGAAACTTTT TTTGAACTTA TTGAGGCTCT	50
	ACTTAAGTAC ATCGAAACCC TTAATGCTTC TGGGGCTGTG TTGATTTCCT	100
25	TGCCTGGCTG GGGGTTTGAT TCGC	124
		167
	(2) INFORMATION FOR SEQ ID :9:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 259 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :9:	•
40	CCGATACAAA TGTACGGAAT GTGTGAGTCC CTCTGGGAGC CCAACATGGA	50
	TCCGGATCAC CTGTTTGAAA CCATCTCCCA AGCCATGCTG AATGCTGTGG	100

	ACCGGGATGC AGTGTCAGGC ATGGGAGTCA TTGTCCACAT CATCGAGAAG	150
	GACAAAATCA CCACCAGGAC ACTGAAGGCC CGAATGGACT AACCCTGTTC	200
5	CCAGAGCCCA CTATATATA TTTCTACTTC ATCTATATAT TGCAAAAATA	250
	GAAAATAGA	259
	(2) INFORMATION FOR SEQ ID :10:	
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	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 216 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
		٠.
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :10:	
20		
	GTCACCAAGA CCGAGGCCAA ACTGGGCACC TTCCCCAGGG CCCTCAAGAA	50
		•••
	GCTCCTGCAC ACAATAAACG CGCCCTCGTT CTTTAGCAAG TCTGCTCCCT	100
25	GGNGGGGNGN GGNNGGGGG GGGGMGMGMGMM MMGNGGGGNN	
25	CGAGGCCACA GCAAGCCGGC TACGGAGCCC CCGTTCTGTT TTGAGCCGAA	150
	GACTACTTTA TTGGATGCGG TGAAAGGCCT CAGCTCTGAC ACTCTGATCA	200
•	GACIACITIA TIGGATGCGG TGAAAGGCCT CAGCICIGAC ACICIGATCA	200
	CTGTGACAAG GGGCCC	216
30	CIGIGACAAG GGGCCC	.210
30 ,	(2) INFORMATION FOR SEQ ID :11:	
•	(2) INFORMATION FOR SEQ 1D .11.	•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 205 base pairs	
3 5	(B) TYPE: nucleic acid	
33		
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
•	·	

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(xi) SEQUENCE DESCRIPTION: SEQ ID :11:

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		CACACTTCTT AAGATACATC AAGTACTAGT GATCTTTGCT	AGCAGTTATG	. 5
		CCTGTTTCGT GTTACAGATT TGGCCATATA TTGACTAAAC	AGCCCCTGTA	10
. 5		AAGTTGAAAG AAAAAGTTTA TAACAGTGAA CTTCTGAGGT	TTACGTTACT	15
		GCAGGCTTTG TTGAGAAGAG ATTGTTACAG TGTGATTTAT	GGATGATCAG	20
	•	GGATG		20
10		(2) INFORMATION FOR SEQ ID :12:		• •
	•	(i) SEQUENCE CHARACTERISTICS:		
		(A) LENGTH: 267 base pairs	٠.	
15		(B) TYPE: nucleic acid	•	
		(C) STRANDEDNESS: double		
		(D) TOPOLOGY: linear		
20				
20		(xi) SEQUENCE DESCRIPTION: SEQ ID :12:		
				•
	•	TGCATCTGAA GAGTTGATGA TCGAGACTAC AGCTGCACTA	TCAGACTGTC	50
25		AGGCAGCTCC CTCAGAAACA GCTTCAACAG ACTGGCTGCT	GAGCAGACAT	100
	:	CACCGTCCTT CCGAGCTCCA CGGCGACTCC ACTCTCGAAC	TTCAGTCGAA	150
		GTTGTTCCAC CACCTTCACG TTACCATTCA CCCTAAAAGA	CCTTCTTGGG	,20
30		TAAGTCCATG CTGCGTCAAA TATTCCACTA TATTCCACAC	TACTGCTGGA	250
		TATGCCATTC TCGGTGA		26
35		(2) INFORMATION FOR SEQ ID :13:		
		(i) SEQUENCE CHARACTERISTICS:		
		(A) LENGTH: 116 base pairs		
		(B) TYPE: nucleic acid		
40	٠	(C) STRANDEDNESS: double		_
٠.		(D) TOPOLOGY: linear		

	(xi) SEQUENCE DESCRIPTION: SEQ ID :13:		
•	GCCTCATCAG GTTTGCCCAG ATGCTGGAGA AGGTGTGCGT	GGAGACGGTG	50
	GAGAGTGGAG CCATGACCAA GGACCTGGCG GGCTGCATTC	ACGGCCTCAG	100
	CAATGTGAAG CTGAAC		116
10	(2) INFORMATION FOR SEQ ID :14:		
	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 296 base pairs	. • • •	
	(B) TYPE: nucleic acid		:
15	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
*		,	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :14:		•
•	TTCGAACTTA CCAGCATCAT GTTTGGTCTC TTCGTATGGT	CAAACTTCAA	50
25	CTTTATAAAA ATAGTGAATA CCACTTATTG AGTGCTTAGA	GTGTACCAGG	100
	CATGGTGCTA AATACTCTCT ATCCATTATC TCATTAAATC	ACATGACACT	150
	ATGAGAAATG TACTATTCTT ATACCCACGT TGCCCAGGGT	CATACATCTA	200
30	AGGGGTGCAA GGACCAGGCT TTGATTTCAA ATTATAATCT	AATGCTCACT	250
	CTCCAGGCCT GATGTCACGC AGCTCCTCAT TCTTATACTT	AACATA	296
35	(2) INFORMATION FOR SEQ ID :15:		:
	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 123 base pairs		
	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		
40	(D) TOPOLOGY: linear		

	••	(xi) SEQUENCE DESCRIPTION: SEQ ID :15:		
		CGTCAGTGTG CTACTTCACA TCATTAGCGA GGCCCAGAAA	CTTGAACAGG	50
5		AAGTCCGGCA CTACCAACAT GCCGCCACTC ATACAACTCA	ACTCTTCCTC	100
		CAAACTCGAT TCAAAGAGCA ATA		123
10		(2) INFORMATION FOR SEQ ID :16:		
10		(i) SEQUENCE CHARACTERISTICS:		
		(A) LENGTH: 262 base pairs	•	
	•	(B) TYPE: nucleic acid		
		(C) STRANDEDNESS: double		
15		(D) TOPOLOGY: linear		
10		(b) Toronour. Timear		
		(xi) SEQUENCE DESCRIPTION: SEQ ID :16:		
20		(NI) DIGOLOGI DIDONITION. DIG ID 110.		
		CAACACATTA GTGCATCAAT ATGAATTACT TGTTTAAAAA	ATCAAATGCT	50
		GGCATTGTCA GAAAAATTTA ACAGGTTTAT TTATAATTAT	CATAAAGTTG	100
25		ACGCTGAAAC TTGTTCACTG AAACATTTTA ACTTGCATTA	ATGCTTTACG	150
		TCTCCGCATT TATATTAAAA ATTCACACAC AAATGAAATG	GAAAAACTGC	200
		CAATACCTGA TTTCTGTCCC TATTTTTCAC TCGCAATCAT	ATACTTAGTA	250
30		CTTTTGACTC TA		262
		(2) INFORMATION FOR SEQ ID :17:		
35		(i) SEQUENCE CHARACTERISTICS:		
		(A) LENGTH: 169 base pairs		*
		(B) TYPE: nucleic acid		
		(C) STRANDEDNESS: double	•	
		(D) TOPOLOGY: linear		
40		• • • • • • • • • • • • • • • • • • • •		

• •	(xi) SEQUENCE DESCRIPTION: SEQ ID :17:	
	TAGCCAAATT CTAGGGCATC CAGATGCATT TGAGCCAGTC GTAATCCAGG	. 50
5,	AAATGTCAAA AAAGCCCCAA TGAATGAACA GAAAATAGCC AGGAAAAATT	100
	TGAAAGTAAG TTTTGAAACA GGACTCGTGG AGATTCTAAA CCTTGCATTT	150
	TCAAGAAACG TGCATCAGC	169
10	(2) INFORMATION FOR SEQ ID :18:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 221 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :18:	
	AGGGGCACCA TTACCATCCA TCTGACATCG CATTTCCATA GAAATGGCCA	50
25	AAGAAAGAAG GTCCTGGTAG GTTTTTCATA GAAAGACTCA AAAAGTTCAA	100
	CCTTTGATGC TATGCCCCAG CCCAATACAA AACTACACAG AACAAAGCAA	150
30	TTATTAAAAT ACTGGCTTCG GTTTCTTTTT TTCCTTTGCA AAGTTTCCTA	200
	CATATATGTC TTTTACAGTA T	221
. •	(2) INFORMATION FOR SEQ ID :19:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 135 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :19:		
	TAGGCTCTGT GACGGCATAG TTTTCAGTAG CTTTATCACA	ATATTCACAA	50
5	TGGAGAATTA TATGACATGG TAGCAGAAAT AGGCCCTTTT	ATGTGTTGCT	100
	TCTATTTTAC CTGAAATTGT AGATATAGGG TAATC		135
	(2) INFORMATION FOR SEQ ID :20:		
10			
	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 314 base pairs		÷
	(B) TYPE: nucleic acid	•	
15	(C) STRANDEDNESS: double (D) TOPOLOGY: linear		
	(b) Torobodi: Timeal		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :20:		
20			
	GTTATCTATC TATCTTGCAG TTTACCTATC TGATCTGATC	TCTGTAATTA	50
	TAGTTCTGTC ATTTAAAATA TACTATTTAA ATCTAATTTT	TACATTTCAA	100
25	AAATTATCTT CAGTAGTAAC TAAGTATATT TTCTGTGGAT	TCTGAGAATG	150
	TTATTTTCA GAATGTGAGA GTACATATGT ACATTTATAA	TCTTGTGACT	200
30	TTAAAGTCTG TTTTCAGATA CAGTATGTAA ATACTTGTAA	AAAAATTGT	250
	ATAATTTTGT GATAATGTAG TTTCCCAAAA CACATTTAGA	AAGCATTATG	300
	TTATTAGTAA ATGA	•	314
35	(2) INFORMATION FOR SEQ ID :21:		
	(i) SEQUENCE CHARACTERISTICS:		
	 (A) LENGTH: 178 base pairs		
	(B) TYPE: nucleic acid		
40	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		

32

•	• ,		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :21:	.*	
_	TCTTCGCATC ACGCAGTACA GATACTCTTT CTGTACTTGC	TTAATCTGCT	50
5	TTTTGGCATC AGTCAGTTCT CTTTCAGGTC AGCATAATCT	TCTTCCTTCC	. 100
	TCTGAAGATC TGCTTTCAGA TTCTGGGTAC GAGCAGAGCT	TACAGAGAGT	150
10	TCCTCTTTCA ATATTTCTGT TTCTTGCC		178
	(2) INFORMATION FOR SEQ ID :22:	•	
	(i) SEQUENCE CHARACTERISTICS:		
15	(A) LENGTH: 188 base pairs		
	(B) TYPE: nucleic acid	•	
	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
-			
20			
	(xi) SEQUENCE DESCRIPTION: SEQ ID :22:		
	ACATCTGATA TCCACCTCCA TGACAGACTG ATCACACCTC	CTTCTATACT	50
25	ACTTCTGTTC TTTGTAAATA CTTAGTATTT TCCAAGGGAG	TGTGAGAGAA	100
•	GAAATGCTAG GTTCATGAAG GGTCTCTAGG TTAAACTTTC	TTTCTTTTTT	150
30	TTTCTTAAAA CAACACTT ATTATCTTAC AAATCTGT		. 188
	(2) INFORMATION FOR SEQ ID :23:	·	
	(-,	:	
35	(i) SEQUENCE CHARACTERISTICS:	•	
	(A) LENGTH: 152 base pairs	•	
	(B) TYPE: nucleic acid	•	
	(C) STRANDEDNESS: double		

(D) TOPOLOGY: linear

	••	(xi) SEQUENCE DESCRIPTION: SEQ ID :23:			
		TTCCANCTAA ACATCCAATA TNTCNTTTAN TGCTTTTATA	TAAANTTTTT		50
5		GTTAAAACCC CTATACCACC TTTTGGGAAT GTTTTAAATT	CTCCAATTTT		100
	•	TCGTTATATA GGATCAACCA ACTAAGAAAA GATTTTATCA	ATTGAATTGA		150
		GG			152
10					٠.
		(2) INFORMATION FOR SEQ ID :24:	•		
		(i) SEQUENCE CHARACTERISTICS:			•
		(A) LENGTH: 83 base pairs			
15		(B) TYPE: nucleic acid			
	*	(C) STRANDEDNESS: double			
		(D) TOPOLOGY: linear			•
20					
	•	(xi) SEQUENCE DESCRIPTION: SEQ ID :24:			
		1011010101010101010101010101010101010101			
		ACAATACAGA GGACAAAGAC CCCTCACAGA ATGCTTTTCA	ACCAACTTCA		50
25		ACTITICAC ACTITITCAA CGGTCCCACC ACA		•	83
		(2) INFORMATION FOR SEQ ID :25:			
		(CECUENCE CUADACEDE COLOR		*	
30		(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 176 base pairs			
50		(B) TYPE: nucleic acid			
		(C) STRANDEDNESS: double			
		(D) TOPOLOGY: linear			
35			• .		
	•				
		(xi) SEQUENCE DESCRIPTION: SEQ ID :25:			
40		AAATGTCCAT TGCTGTATTG CGTGACCGTG GTCCTTGCCT	GTCAAATNCA		50
		ACAATGACCA AATGATGATG CGCCCTTAAT ACCAGGATGA	GACCAAACCT		100

	ACACATCTCC CAAGTGCCGA ACAAAAACCT GAACAAAAAC CATNTGCACC	150
	CTACATCTGG CTGACATTTA CATTTT	176
5	(2) INFORMATION FOR SEQ ID :26:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 232 base pairs	•
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :26:	
	AAATGTATGA TCAGAAAATA GGTACGCTTT TAAAATATTT GAACAGAAAA	50
	GCTACAAATA AATNGAGCAA TGCTTTTAAA ATCATCTTTG TTTTATAGAC	100
20	TTTTTCTCGC ATGAATTACA TTTTACAATT TCATNNGGCA TATTCGCACT	15
	TTAAGTACTG ACGAAGAAGA CTAAAACAAT CATTTTTAA CAATATTTAA	20
25	AAGGATCATA TAGTCGACTT TTAAAACANC CC	23
	(2) INFORMATION FOR SEQ ID :27:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 192 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :27:	
40	GAGAAAGTCC TTGCCATTCT AAAAGCCACC CCACTTCTCT AAGGAGAATG	5
40	GCCCAATCTT CCCAAGTCCA CACAGGAGGG AAACATTGTT TGCGTAAATA	10

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	CGCAATGCAA AATTINNTAT CTTGGCTTAA TACNNCGACG	TTTTATTTCG	150
	AATGATGAGC CTTCTGCCCC CCCTTCCCCT TTNNNCTCCC	cc	192
<u>.</u> 5	(2) INFORMATION FOR SEQ ID :28:		
	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 201 base pairs	. •	
	(B) TYPE: nucleic acid		
10	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
		. ,	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :28:	•	
	TAACACTTTA ANCATCTCTC CAAGCCAAGG AGGCTATGAC	ANTGTAGCTT	50
	TTATACTGTC CCCATCGGCC ACAATAACAA ACTTTTAACC	CTCATAAAAT	100
20			
	GAATGAAATC ATCTTTCTAA GAATCTATAC CTACAATTCT	CTGAACTAAT	150
	CAATGAAAAA GATGATCAAT TCTGACTAAC AAAGATATAT	CGATTCCATT	200
25	T		201
	(2) INFORMATION FOR SEQ ID :29:		
	(i) SEQUENCE CHARACTERISTICS:		
30	(A) LENGTH: 275 base pairs		:
	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
	(2)		
35		· · · · · · · · · · · · · · · · · · ·	
			٠
	(xi) SEQUENCE DESCRIPTION: SEQ ID :29:		
40	AACCTAAGGC AGTTGACCCC ACCTTCCAAC ATGTTTTCAC	TTTATTGGCC	50
	CCTCCCTACA TTCGGGTTAG GTTCCATTTG ATTTGCACAA	TAATGACTTT	100

	ATTTCTCTTT GATCAGGATT TGGCACATAA AATCCTTTTA TCATAGA	ACT 150
	AACTATTTTA ATTACATATA ATGTAACTAA TGGAGAGATT TATAGAG	SAAT 200
5	TTTGTTTTTT TGTCATATAC TCCATTTCGA AGACAGATAT GATAGA	ACTA 250
•	GAAATTAAGT TGCATTTCTG CAAGT	275
	(2) INFORMATION FOR SEQ ID :30:	
10		
•	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 122 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :30:	
20		
	GTAAATNTAC AAAGATAACG TCGCAATTTT CTTAGATTTA AATCAA	AGAC 50
	ATTCATCAAC AAGATTTCGA ATGGAATATT CCAGAAATTT CTGAGC	CATC 100
25	TGATCACAAC AACCGTCTTT GA	122
	(2) INFORMATION FOR SEQ ID :31:	
•	(i) SEQUENCE CHARACTERISTICS:	·
30	(A) LENGTH: 197 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(6) 101020011 11	
35		
J.J.		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :31:	
	GGATTTGNAG CTTGAAGTTC AGAGCTGGTT TACCCAAAAA GGGAGC	CAAT 5
40		
	AGAGATETTE CEAATGAACE TEAATACAEG ATEGTAATAE TEGEAE	AATG 10

	AAATGTTAAG TATGATTCTA GACTTCACTG ACTATCACAA TGATATTTTC	150
	TCGATCGCAC TAGTGCACAA CAAAACACGA TGAGTGCAAT GTGAAAC	197
5	(2) INFORMATION FOR SEQ ID :32:	
	(i) SEQUENCE CHARACTERISTICS:	
. •	(A) LENGTH: 97 base pairs	•
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :32:	
	ACAAAAGTCT GAAGAAATCA CCAACNACAA GACGATTAGA AAATATGTTG	50
	TTGGGGTCAC AACTAAAAAG TCCCTGATCT ACATTGNNTT TCNACTC	97
20	(2) INFORMATION FOR SEQ ID :33:	
	() CHOURNOR OUR DECEMENT OF THE	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 260 base pairs	
25	(B) TYPE: nucleic acid	
-	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :33:	
•	CAAATAAAAC AANTNTTGTA AAGCTACAAT AGTTATATAC CAAAGCAATA	50
35	CCTATTACAT GCTTTACACA ATCCCATGAA AAAATAATTT AATAGCTCCT	1,00
.•	AATCCCTGAT GCAAGGCACT TCAAAGCACC CGCACAAAAC TCCATGAAAC	150
	AACATACAAT ACATCATTTA AATAACATAA ACGACTTTCA CACACTTGAC	200
40	CTAGGAAAAA ATAAAATCCA TACAACCACA GCTAAAAACA TGTTAAGATT	250

	CACAATAAGA	260
	(2) INFORMATION FOR SEQ ID :34:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 168 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :34:	
15	GGACNTGCGC NNNANNNANA GCCANTGAAC NCAGCCACCA NTGCAAGAAG	50
15	GGACNIGGGC MANAMANAN GGGANIGAAAG NGMGGGMGM NIGGIAMGIAMG	
	ACTGCCTCTT NCCAGGCAAG ATTTTACTGG AGCAACANAA CCGGAGGTGT	100
20	GATCCAAAAT ACCTTCCTTN CCAAGCCCGG GGTNNNNGAT AAGGTGTGGA	150
20	NTTNGGTTAA AGACAAGG	168
	(2) INFORMATION FOR SEQ ID :35:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 173 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :35:	
35	CTCGNACACT GTGGAGAGCC TGCGNNNNNN NNGGTNTACT CAGGGGGACG	50
	AAAAGGAGNN GAANAAGTGA CACNGCNGNT AGCAGAGNGC ACAGAGCTGT	100
40	GCTNNNGTGG TCCCTTAGNA GCCGAGNAGG TGGGCGCGAG GTGAANAAGG	150
40	TGCNNGTGCG AGAGTGCGTG ATT	173

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	(2) Intolumination for one in the	. : .	
	ALL ADAMS OF SUPPLICATION	•	
	(i) SEQUENCE CHARACTERISTICS:		
_	(A) LENGTH: 134 base pairs		
5	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :36:		
	AGCAAGTNNN NNNNNNCATC CTGAAAGTCA AAATGGAATT	TGTGTTTATA	50
15	CAACTAATAA TGATTTTTAT TTGCTCAGTA CAGACTNATT	TACAATGAAA	100
	GTTTTGCTAA CCTTGGTAAG CTTGTTTACC GTTT		134
20	(2) INFORMATION FOR SEQ ID :37:		
	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 160 base pairs		
•	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double	•	
25	(D) TOPOLOGY: linear		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :37:		
30			
	TGGCGCCTGT CCGAGAGCAA GTNGNNNNNN NNCCTGAAAG	TCAAAATGGA	50
•	ATTTGTGTTT ATACAACTAA TAATGACCTT TTATTTGCTC	AGTACAGACN	100
35	GATTTACAAT GAAAGTTTTG CTAACCTTGG TAAGCTTGTT	AACCGTTTAC	150
	ATGACTTCTT		160
	(2) INFORMATION FOR SEQ ID :38:		

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 140 base pairs

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
÷	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :38:	
	CTAGTTTAAT GAATCTGAGG GGCTACTATA AACAATCCCA CCCTCACACG	50
10	ATTTTTTACC TTCNTTACTT NGCCCTTCAT TAGGCAACCC TAGCAGCACT	100
	CCACCTCTAT TCTCGCACTG TCCAAGAGGC CCACCTAATC	140
	10) TURONY TON DOD ONG TO 30	•
15	(2) INFORMATION FOR SEQ ID :39:	
	/:\ CECUENOE CUADACMEDICATOS.	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 203 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :39:	
	(XI) Dagoznoù babonililann bag ib vor	
	AGCAAGTATC ANNNNNNNNN ATACATTTGA ATTCAAGTTG TTTTTTGTCA	50
•		100
30	AATTGTACAG TGTGTCAATT GATCTTCAAG CTGNNGGTGC CTAGAAATGG	100
30	GNCGGTGTCT GTAGCCCTGG CATGTGCACA CGGAGCATTT GCCACCACCG	150
	CAAGCAAAAA GTCTGGGNGA AGTTCACCAA NGNCAAGAAN NATTANGGGA	200
35	AAA	203
	(2) INFORMATION FOR SEQ ID :40:	
•	(i) CROUDING CUIDING TOTAL	
40	(i) SEQUENCE CHARACTERISTICS	
40	(A) LENGTH: 170 base pairs	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

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(D) TOPOLOGY: linear

, 5	(xi) SEQUENCE DESCRIPTION: SEQ ID :40:	
	GAAAAGCNNN NNNNNNGGC TTAAAGAACA ATATGCTGAG ATGGAGAAGG	50
10	ACCTAGCGAA ANTNNNAACC TTTTAAGAAC TTGAANNACA ACAATCACAA	100
10	ACTAATGAGA AGATGTTCAC CTCTCTCTG AAAACTATGC CCACCAGACC	150
	GTTTAGCCTC TGCTCAAGCT	170
15	(2) INFORMATION FOR SEQ ID :41:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 270 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :41:	
	GCTGCATGTT TCCTTGNATT TGAGCTTGAA AGTTCAGAGC TGTTTACCCA	50
٠.	AAAAGGGAGC CAATAGAGAT CTTCCCAATG AACCTCAAAC ACGTCGTAAT	100
30		
	ACTCGCACAA TGAAATGTCA AGTATGATTC TAGACTTCAC TGACTCATCA	150
	CAATGATATT TTCTCGATCG CACTAGGCAC AACAAAATAC GATGAGTGCA	200
35	ATGTGAAACA TCTACAAAGT AAATCACACA CTGTTTTTTT AAATNCATAG	250
	AAATTTGATT TGTAATAAAA	270
40	(2) INFORMATION FOR SEQ ID :42:	
4 0	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 245 base pairs

15

20

25

30

35

40

(2) INFORMATION FOR SEQ ID :44:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 144 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

42		
(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	.*	
(xi) SEQUENCE DESCRIPTION: SEQ ID :42:		
AGAGCTGCAT GTTTCCTTGA TTTGNAGCTT GAAGTTCAGA	GCTGTTTACC	50
CAAAAAGGGA GCCAATAGAG ATCTTCCCAA CGAACCTCAA	TAACGATCGT	100
ANTACTCGAC ANTGANATGT TANGTATGAT TCTAGACTTC	ACTGACTATC	150
ACAATGATAT TTTCTCGGAA TCGCACTAGT GCACAACAAA	ATAGATGAGT	200
GCAATGTGAA ACAATCTCAA AGTAAATCAT ATACTTGTTT	TCTTA	245
(2) INFORMATION FOR SEQ ID :43:		
(i) SEQUENCE CHARACTERISTICS:		
(A) LENGTH: 124 base pairs		
(B) TYPE: nucleic acid		
(C) STRANDEDNESS: double(D) TOPOLOGY: linear		
(xi) SEQUENCE DESCRIPTION: SEQ ID :43:		
TACACTGNGA AAATGTACAA AGAAAGTATC CCCAAATNAT	TTACAAAGCC	50
TAAATGTCCT TGATACACAT ACACGGNAGT ATGCAGACAA	CAAAGATTAA	100
ATGAAGACAC TTTACACTTT TCGG		124

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :44:	
	GAGTTCTCAC GAATACACAG GTTCAGAGAG ATGAGANGGA ANAACATAAG	50
	GCAAATTCCT AACANNCGCT AATATAGGAG GCCGCTCGAT AGGATTTTAA	100
10	AAAAATAAAA ACAATCTTAA TAGTGGGACA AGGCCATCAG AAAA	144
	(2) INFORMATION FOR SEQ ID :45:	,
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 177 base pairs	
	(B) TYPE: nucleic acid	* *
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :45:	
25	ACTGATTCNN NNTGAAAATA CCCCCTTTCT CCATTAGTGG CATGCTCATT	50
÷	CAGCTCTTAT CTTTATATTC CAGTAAGTTA TTTTGCTCTC ACTGTTTTAA	100
30	CAAAAAAAA AACAACAACA TAAAAATCCT TGCAAACCAT GTCAATTGGA	150
	GAAATTTAAT GTTTTTCATA ACATGAA	177
	(2) INFORMATION FOR SEQ ID :46:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 256 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(b) TOPOLOGI: TIMEAR	

••	(xi) SEQUENCE DESCRIPTION: SEQ 1D :46:	
	ACTGATTCTG CGAAAATACC CCCTTTTTAT TAGTGGCATG CTCATTCACT	50
5	TTATCTTTAT ATTCAAATAA GTTATTTCGC TTTCACTGTT TTAACAAAAA	100
	AAAAAAAAA AAAAAAATAC AGCCCTCCCC AATCGAAGAT TTCAACTTTT	150
10	TAATTCACAC GGAAAAACCA AGACAATTTC ACAACTTCTG GACACAACCA	200
10	TCAACACAGG ACATTTTTT TACAGGCAAA TCACTTAAAA CAAAAAAGAT	250
	CCCAGA	256
15	(2) INFORMATION FOR SEQ ID :47:	
•	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 155 base pairs	
20	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :47:	
·	GAGAAAAGTC NNNNNNNNA GGTTAATCTA ACTTTTCTTG CTTATTTCAG	50
30	CTATGATCTG AAAGGATGGA AGACACAAAA TGTATGNNTA AGGTATTTTT	100
	AACAAAGATA CATGGGTAAA TTAACAGCAG TAATGTAAAA AAGACTGAGG	150
	AGCAA	155
35	(2) INFORMATION FOR SEQ ID :48:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	

(D) TOPOLOGY: linear

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. 5	GCTTATTTTA CTATATCTAA AGGATAAAGC ACAAAATGAT	GAATAAGATA	50
. • 5	TTTNNACAAA GATACACG		68
	(2) INFORMATION FOR SEQ ID :49:		
10	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 244 base pairs		
	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
15			
	(xi) SEQUENCE DESCRIPTION: SEQ ID :49:		
20	CCTGAAAGCA AAGCCATNNA AAGCTTAGAG ACAAGCACNT	GAGATGCAGG	50
	GGCCTAGCTA AATTTNGAAC CTGNTGGAAC TTGAACCACA	ACGATAAAAA	100
0.5	ATTACAGAAG AGTTCACCTC TTTCTGAAAA CTATCCACAG	ACCGTTTACC	150
25	TCTGCTTCAA GCTANCAATA TATCAATGGC ACTCTCATAN	CAGAAGAAAG	200
	AAGTTCCTAC TAGCTCCTGA TTATATTNAA GAAGATGCCC	ATGG	244
30	(2) INFORMATION FOR SEQ ID :50:		
	() CDOURNOR OUT DE CONTROL		
*	(i) SEQUENCE CHARACTERISTICS:		
•	(A) LENGTH: 81 base pairs		•
25	(B) TYPE: nucleic acid	•	
35	(C) STRANDEDNESS: double		•
	(D) TOPOLOGY: linear	•	
	•	the second second	

40 (xi) SEQUENCE DESCRIPTION: SEQ ID :50:

ACTCGNNCAG CGATAGTCGG AGCTCACCAA CAAAAACNCT NNNNCAGAAA

	GGANAAAGNG CCGCCCTACG TGGTACACAC A		8:
	(2) INFORMATION FOR SEQ ID :51:		
5	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 223 base pairs		
	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
10	\- ,		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :51:		
15	GTACTTACTG CACTATGAAA AGCAATAGAT CGTCCATAAG TTATAACCAA		50
	AATCTCTCCC TCAGGAATAT ATTCCATACT ACTAACAGAC ATATTAAAAT		100
	ARICICICC TENGGARIAI ATTECRIACI ACTARCAGAE ATATTAAAAT		100
	TTAGAGATTT CACTTCTGTC ATAGTAGCAT GATCCCAAAG TCGAACAGTT		150
20			, .
	TTGTCATCAG CAGAAAGAAT CTGTTTATCT CACTGCACCA CAGAGCTTTT		200
	TTATACCAGA AGNATGACCA CTG		22:
25	(2) INFORMATION FOR SEQ ID :52:		
			٠,
	(i) SEQUENCE CHARACTERISTICS:		
-	(A) LENGTH: 49 base pairs		
	(B) TYPE: nucleic acid		
30	(C) STRANDEDNESS: double	٠.	
	(D) TOPOLOGY: linear		
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :52:		
	TATGGTTTNT TGTAAAAAAG CTCANNNANA AAGGGANNGG CTTAAGAGA		4
	(2) INFORMATION FOR SEQ ID :53:		
40	(2) INFORMATION FOR SEQ ID :53:		
70	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 213 base pairs		
	(11) monatile to hatto		

(0)	TIPE. MUCIEIC	aciu
(C)	STRANDEDNESS:	double

(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID :53: CAACGTCAGA GCACACNNNN NNCTCAGNGC ANAGGCATGA CAGGAGCTCA 50 10 TANCHATAAG CCATATAANN NTGTTACCTG TATAGAATGA TGAATTATCT 100 TTCTAGAGTC TATACCTACA GTTCTCTGAG CTAATCAATG GAAAAGATGA 150 15 TCAATCTGAC TAACAAGAGN AATTGATTCA TTTTCTTCCA CNCCCCTTCA - 200 TTCAATAATC AAA 213 (2) INFORMATION FOR SEQ ID :54: 20 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 166 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 25 (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :54: 30 GCGTGTTGTG NGGAGTGGNN GTCTNGTCNT CCTGTTAAGG TTTTTGTGTG 50 CGTNNTTGCG TANGGGGNGG GTTTNGGCAG GTGTTGCCGG TAGCNAAACN 100

35

GTTGGCCCCA TNGCCNGNAT TGNNNCCCCN CNNGGGAANG GGGGGGGNGA 150

(2) INFORMATION FOR SEQ ID :55:

CCNNAGNGGG AAAAAA

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 75 base pairs

(B) TYPE: nucleic acid

• . •	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :55:	
	ACCTCATAGC GAACTCGTCN TATAGANNNN ANNTGAGTCG AGCTCGATGT	5.0
10		
	NGNCGTTGTN GCTGCCAAGC GACAT	75
	(2) INFORMATION FOR SEQ ID :56:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 181 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :56:	
25	AATNNNNCC TATTTTGTAA TTTTTTTGAA AAAAGTTCAA TGTTCAGTTT	50
	TCCTTAGTTT TTACCTTGTT TTCTCTATAG GTCATGATTT CTGTGAAGCA	100
30	AAAAGATGCC TTTTACCATG AATTCTTGAG TTTACATCAA TAATATTGTA	150
	TATTAAGGGG ATCAGAAGTA GGAAGGAAAA A	18:
	(2) INFORMATION FOR SEQ ID :57:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 130 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	·	,

	••	(xi) SEQUENCE DESCRIPTION: SEQ ID :57:		
		TCGAAGAGC CTCAATCACC GTTTTTCAGG ATGTTTGATC	ACAATACGAA	50
. 2		GATGACGNNA TCCAATTTCA GAACACCACA GGGCACTGGC	ACACAGAGGG	100
		GATTATTACA GAACCACTGA GATGACATTT		130
		(2) INFORMATION FOR SEQ ID :58:		•
10		(i) SEQUENCE CHARACTERISTICS:		
		(A) LENGTH: 157 base pairs		
		(B) TYPE: nucleic acid		
		(C) STRANDEDNESS: double		
15		(D) TOPOLOGY: linear		
10		(b) Torobodi. Tinear		
		(xi) SEQUENCE DESCRIPTION: SEQ ID :58:		
20				
		GTNATTTTGA AGGTCTCACA AATNTAAAGA CTTATTGTAG	CCCATGAACA	50
		CATTGACAAG TACAAAAATT ACAAAAATAT GCAGAAATAT	TGAATAACTA	100
25		GAACACAAGC CACTGTTTCA ACTCCAGAAA AAAGAAAGGC	TTTACTTTTT	150
		CCATGAA	•	157
	•	CENTURA		10
		(2) INFORMATION FOR SEQ ID :59:	•	
30				
		(i) SEQUENCE CHARACTERISTICS:		
		(A) LENGTH: 252 base pairs	•	
		(B) TYPE: nucleic acid		
		(C) STRANDEDNESS: double		
35		(D) TOPOLOGY: linear		
			•	
	. :			
40		(xi) SEQUENCE DESCRIPTION: SEQ ID :59:		

GAGGTGAAGT TGTTCTTTAT TGAATTGCAT TATNAATGNA TAGGCTGTGC

••	CTTTTTGNAC TCTCTATGAG TTCATGAATT TAACCAATAC GNCCACAAAT	100
	GCTGCTGCTG TCACAGAGAG ATGCCGATAA AGGACACCCA CCACCAATTT	150
5	TTGAACAGGG AGGGGAGAAT CAACTCTGAA TGTGATGCAG TGACCAGGAG	200
	AGAGGACCAT GTTAACAACA CCACACAAAT GCAAATGACT NGTTCTNAAA	250
	CA	252
10	(2) INFORMATION FOR SEQ ID :60:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 198 base pairs	
15	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :60:	
	GACCTCGTTT TTCATCCTAT TATGGCGTTT ANCAGGCTAG ACAGAAACAC	50
25	GCCTTAACTT TANTTGCCAC AAATCTTAAT ATTTTCTCCA CTAATATTAG	100
	AAAGGAAGCA ACAAATAATG TCGCTTTTCA CCTGACGTCT GGTTCAACTT	150
30	TCCGCCCAGC CTATTCCTGN GTCTTCCTCC TGCCTTTCTA ATGTCCCA	198
	(2) INFORMATION FOR SEQ ID :61:	•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 229 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		
44()		

(xi) SEQUENCE DESCRIPTION: SEQ ID :61:

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	GAGGTGGCAT TATGTGAGAC AGCATTTGGT TAGGGAGTGC	CAAGCATTCT	50
	ACAGCATTTG ATGGTGGAAA TAGTCATGCT TTTTATTTCT	GCTCTCTAGG	100
5	AATGTAAGGT GCACAGCAGG TCAGGGTACT GCTGTGTGAG	ACAAAAGGTC	150
	CAGGTAGAGG CAATTCCCCA GATGCAGGCA GGGCAGGTGC	TCACTGGGCA	200
10	GAGTGCTTCT CATACACCTT CAGGAACCC		229
10	(2) INFORMATION FOR SEQ ID :62:		•
	(i) SEQUENCE CHARACTERISTICS:		
•	(A) LENGTH: 181 base pairs		
15	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
	(2) 20000000		
20		•	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :62:		
	CATCCTGGGC CCTGGCCGAT GTGCATATCA ACANAAAAA	GGGACTGAAG	50
25	AACATCGGCC ATATCATCCA CACAAGCCAA ATCTCACACC	TTTACTTTAA	100
	ACCECTTAAT GAATTTCATE ACCTTGAGGG CTAAAGATCG	TTCTTCGGGC	150
30	AAGAGCTTTT GGACTGTTTT TAGAACAGAA T		181
30	(2) INFORMATION FOR SEQ ID :63:		
	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 180 base pairs		
35	(B) TYPE: nucleic acid		
J J	(C) STRANDEDNESS: double		
		·	. •
	(D) TOPOLOGY: linear		
		•	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :63:

	GTTGATTGTG AATCATCCCT CTAACATATA ATCAANANTA	TGAGTAGAGA	50
	ATTTGGCAGA AACAAGAAAA GGACATGGGA TAACTTTTAG	ATTTAAAGAG	100
5	GCAGGCTTGG AACACAAACT GGTATTCTGC TGACACACTG	CTGCATATCA	150
	TAAGGCTACT CCACAAGACC ATTAGAAGTC		180
	(2) INFORMATION FOR SEQ ID :64:		٠.
10			
•	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 120 base pairs		
	(B) TYPE: nucleic acid	· · ·	
3 m	(C) STRANDEDNESS: double	٠,	
15	(D) TOPOLOGY: linear		•
		•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :64:		•
20		•	
	ACAATGTTCC AACATATATA TGGGGAGGGG AGAACANTTA	TCTGTATAAC	50
	AGGGAACTGT GATTATTTAA AAATANGCNA GAACTTATTT	CANCTGTGCT	100
25	TTAGAAANAA NTGTATACGG		120
	(2) INFORMATION FOR SEQ ID :65:	,	
	(i) SEQUENCE CHARACTERISTICS:		
30	(A) LENGTH: 70 base pairs		
	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear	• .	
35			
	(xi) SEQUENCE DESCRIPTION: SEQ ID :65:	•	
,	(MI) BEFORMED PRODUCTION. BEFORE TO . 03.		
	CACATCGCTA TAATCCTTTC TGAGGACTTA AAACTTTATN	CACTTACCT	5
40			
	TTATGACTTT TAACAAGCCT		7

15

20

25

5

(2) INFORMATION FOR SEQ ID :66:		
(i) SEQUENCE CHARACTERISTICS:	•	
(A) LENGTH: 240 base pairs		
(B) TYPE: nucleic acid		
(C) STRANDEDNESS: double	•	
(D) TOPOLOGY: linear	•	
		• • •
(xi) SEQUENCE DESCRIPTION: SEQ ID :66:	•	
TTTCGAGCAA AATGTTTACA TTTACATGGA AATACACACT A	AAACAGAAT	50
ATTTTCCTAA TCATGAAACT TCGCCAAAGC AAAATACAAA C	CTTCCAACGG	100
GAGGTCCACT CAACTAACAA CAATGATCCC CAAGCAGGGC A	CCAAGAAAC	150
CTGGGGGACC CTTTNCAAAA AACCTCCTTT CAAGAGACCC T	AATACTCTN	200
TCCACACAC CACACGATTT AGGAACTTGG ACATGTTCCT		240
(2) INFORMATION FOR SEQ ID :67:		
(i) SEQUENCE CHARACTERISTICS:		
(A) LENGTH: 254 base pairs		
(B) TYPE: nucleic acid		
(C) STRANDEDNESS, double		

30

(xi) SEQUENCE DESCRIPTION: SEQ ID :67:

(D) TOPOLOGY: linear

35	GGAAGCACTA	CATTTCATCC	AAAGCTGGGT	TGAGTTATTT	TTGAACACTT	50
	TACGATATGC	TTAGGTAGGC	TTTTAACTTG	CTCCTCCAAA	CAATATCTNT	100
40	TGGGAAAACA	AGCCCTGTGG	AGAGATCCTT	CCATCAAGTC	GCTTCAATTT	150
40	AACCTATTTC	TAGAGGACTA	GACATGCAGA	ATCGTCAACT	ACAGGGAATG	200

••	AAAAGTTCAA AAAGTAGATC CTACAAGATG AACGAGTACT TTTCTAAACA	250
	TAAG	254
5	(2) INFORMATION FOR SEQ ID :68:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 192 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		;
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :68:	
• • •		
	AGGCACCAAA GAAACACCAA GCAATAAAGT GAAAGACTAA CCAAGATTTG	. 50
		. 100
	ACATTGTATG NTTACTGTAT TCTTTAAGAA ACAACTACAA AAAGAAAATG	100
20	The second secon	150
	TCAACAAATN NNNACAACTG AGAACCTGGG AATTCCCGCA CGGAAGACAA	150
	GAGATAACCT CTCCAATTTA ACACCGCTAG GNTTCTATNN TA	. 192
25	(2) INFORMATION FOR SEQ ID :69:	
•	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 112 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :69:	
	A CONTRACTOR OF THE CONTRACTOR	50
•	AGCAGCGNNN NNNNTNNAAA CAAAAGACAG GAGCAGAGAG GCCTGAGAGC	. 50
	AGGAGGCGAA TTCGATCTCT CCTCACAAAC AGCCCAGGAA AATATACACC	100
40	AGGAGGGAA TICGATCTCT CCTCACAAAC AGCCCAGGAA AATATACACC	
40	CCGGGGAAG CC	112
	CCGGGGAAG CC	114

55

	. •	(2) INFORMATION FOR SEQ ID :70:		
		(i) SEQUENCE CHARACTERISTICS:		
		(A) LENGTH: 232 base pairs	. •	
. 5		(B) TYPE: nucleic acid		
		(C) STRANDEDNESS: double	•	
		(D) TOPOLOGY: linear		
		(5) 200020010 22022	. •	*
10				
		(xi) SEQUENCE DESCRIPTION: SEQ ID :70:		
	-	AAGGGTCTCC AATTTAATCC TTGGGTTGTT TTACCACTTC	TTTCGTAAAT	50
15		TTATCAAGAT TTCTTTCGCA CAAATACTCT AGCGCCTCAC	AACAAACCTG	100
		ACCTTGCGCA GGAAGTCGAC CATCAGCACC CCCTTTACAA	CATCGTTCAT	150
20		ATCACAATTG AGAAGATGAT GAATGAAGAT TCGCTTCCAA	GTTCCAAGGG	200
20		CAGATTTATT CCTTTAACTG ACATTTCCAT GA		232
		(2) INFORMATION FOR SEQ ID :71:		
25 ·		(i) SEQUENCE CHARACTERISTICS:		
		(A) LENGTH: 160 base pairs		
		(B) TYPE: nucleic acid		
•		(C) STRANDEDNESS: double		
		(D) TOPOLOGY: linear	* .	
30		•		
			•	•
				,
		(xi) SEQUENCE DESCRIPTION: SEQ ID :71:	·.	
35		CNTGGATCCG NCCTTGTTAC GNCCAGGACG NCTGGACCGC	AAAATGAATT	50
		TTCACTTTTC GACCACCGCC AGAAGAGATG ATTTTCTCAT	CATNAACAAG	100
40		GAACCTTTGA GGAGATCGAC TGAAAGACTA GCGNCCCNGT	CAGATAAGAT	150

TTAGGGCTGA

	••	(2) INFORMATION FOR SEQ ID :72:		**
		(i) SEQUENCE CHARACTERISTICS:		
		(A) LENGTH: 182 base pairs		
· 5		(B) TYPE: nucleic acid		
		(C) STRANDEDNESS: double		
		(D) TOPOLOGY: linear	•	
	•			•
		·		
10		(xi) SEQUENCE DESCRIPTION: SEQ ID :72:		
		AAGGAAGACT GGTTTGCCAT CCGAGATCAT TAAAAANGNC	TGACCCTAAC	50
15		AATACGTACA AAAATATAAA ACGCAAATAA AAAATACAAA	CAGATTCCTT	100
•		CTTAAAGTAC TTTTAAGAAA AAAAGCAGGN CCTTGGAAGT	TTCGATTCTT	150
20		TTTTCCTCCC GTCGCAAATT CTATGTTTGG AT		182
		(2) INFORMATION FOR SEQ ID :73:		
		(i) SEQUENCE CHARACTERISTICS:		
		(A) LENGTH: 168 base pairs		
25		(B) TYPE: nucleic acid		
		(C) STRANDEDNESS: double		
		(D) TOPOLOGY: linear	•	
			•	
			•	•
30				
		(xi) SEQUENCE DESCRIPTION: SEQ ID :73:		
				_
		CAAGAGGCAG CTGCCCCTCC CACCTCGGAG GNCTGAGAGG	GNCTGTGNCG	5(
35		ATGAGCTGGA CGAGCACAGC ACTAAAAAGG CTTGCCCTNG	CACAATAACA	100
		CTGAGAGGAT GATGAGAACA CNCTTGAAAT GCTTCATNCA	CATGGGCAGG	150
40		ANAGGCTGCA CAATGAAA		16
		(A) TURARUSTAN BAR GEO TR 74		

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 221 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
·	(xi) SEQUENCE DESCRIPTION: SEQ ID :74:	
10	AACCTTTATT CATCCTCCTN TCCAAGACCT ATGAGAAGGT TCCAGGCCCC	50
	AGGAACACAG GCTTCTTGGC CCCAGATGCA CCTCCCTGCA CCCCGGGGTT	100
15	GTATACCACA CCCCGGGCCC CTAATCCCAG GCCCCGAGAT AGGAAAGCCA	150
	ACTAGTTCTT TNTNTGTGAT TCAGTAGGCC TGACCTATAG NTGGAATGTC	200
20	NCTNTCCCTN NAATAAATTN C	221
20	(2) INFORMATION FOR SEQ ID :75:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 127 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :75:	
	AGACTGNTTG GGTCATCCGA GATCATTAAA AATGNCTGAC CCTAACAATA	50
35	GGCACAAAA TAAAAACGAA ATAAAAAACC TCCTTANNTT CGAAGTATCT	100
	TAGAAAAAA CAGGGCCTTG AGTTCTG	12
40	(2) INFORMATION FOR SEQ ID :76:	
	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 180 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

•	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :76:	
	AAAAGAACAG CAGTTTCACA TTTCACATAT TTGAAAAACA TTTCAAAACC	50
10	CTCTAATAAG TATTTAATGA AAATAAATTT ATCGAAGAGA AACAATGACC	100
	ACAAAATTAA TACTACCAAA TCATTACTGA GACTCTTGCA TTACAATATT	150
15	TGGAGAGTAG GTGAAGAAAA TNTAGACCGA	180
÷	(2) INFORMATION FOR SEQ ID :77:	•
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 142 base pairs	•
	(B) TYPE: nucleic acid	٠,
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
* .	(xi) SEQUENCE DESCRIPTION: SEQ ID :77:	
	CARROLL AND AND CARROLL AND THE ARREST CONTROL CARROLL	50
30	GATTAANNNN NNNGCACCON NNATTACTGG CACAGCTGGT GAATATTTTC	50
30	GTGGACTTTT GACTAGTGCA CCTGCGTGCG GGAAAACANT GATAAAACTG	100
	TCACTTTAGC CNCNAACTAC AAGACCNGTT AGACTAGAGA GC	142
35	(2) INFORMATION FOR SEQ ID :78:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 124 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
-		

	(xi) SEQUENCE DESCRIPTION: SEQ ID :78:	٠
	GGCCCTGAGA GCAGGACGGC GAATTCGATC TCCTCCTTCA CAAACAGCCC	50
. 5		
	ANGGAAANTA CACCCCGGG AANNCCCCNC NCNNTTAGAA CCNNCAGGNT	100
	CTGNCCCCC CNNNGNCCCC CCCG	124
10	(2) INFORMATION FOR SEQ ID :79:	
20	(2) 1.0.0.0.0.10.0.002 10 1/31	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 171 base pairs	
	(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double	
·	(D) TOPOLOGY: linear	
		•
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :79:	
	AGGTATAGTG TTCCCTAATC ATGTACTTGT GAAGCACCCG GANTTTTTCA	50
	TATAGTCTAA AAGCTAGAAG AACAAGAGTG TATTTCGTGG GTGGATGTAT	100
25		
	NGTCACTTGC TGAANNNTT GAAATACCAT TATCCCCCTT GCTAACNCCT	150
	TTAAGNAAAN GCCNTTTTAA G	171
30	(2) INFORMATION FOR SEQ ID :80:	
	() CROUDNOR GUNDLOMEDIONICO	•
•	(i) SEQUENCE CHARACTERISTICS:	
• .	(A) LENGTH: 98 base pairs	
3 E'	(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40 (xi) SEQUENCE DESCRIPTION: SEQ ID :80:

CTGAACAGTG TGGTCGAGCA TTCCAAGTCC GTGAAGGTGC AGGAGCGGTA

• •	CGACAGTGCC GTGNGGGCA: CATGGCACCT NGACCACGGG CNCCTAAG	30
	(2) INFORMATION FOR Q ID :81:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 108 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :81:	
15	CCTCAACAAG TGCGAGACCT GGGCGTCCAA CCTGCCTACA ACCACAGCCG	50
•	CGAAAGAAGA AGACCTGCTG CTTCAATACA ACACGGGAGG ACCTGGCCAT	100
20	CAACATCA	108
	(2) INFORMATION FOR SEQ ID :82:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 180 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		• .
	(xi) SEQUENCE DESCRIPTION: SEQ ID :82:	
	ACACATNACC CACNGCCAGT ATATCTCGAA CAAAGTCTCA GACGATACTC	5(
35	CCT AAATTG TAAAGCTTAA TACAGGTTNT GGAAATCATT TAACACCCGA	10
	GAATGTCCCA TCACAGTCTT CCGTCAAAAT TTAGCCTCAC AACAACAACA	150
•	ACGCCTACGA AATTCTAAAT TCAGAAGGAA	18
40	(2) INFORMATION FOR SEQ ID :83:	• .

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 199 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

	(xi) SEQUENCE DESCRIPTION: SEQ ID :83:	
10	GGCTTCTGAT CGCCATCCTT GAACAGGGCA AAGGTGGCCT CACCAGCCTT	
	GGCTTCTGAT CGCCATCCTT GAACAGGGCA AAGGTGGCCT CACCAGCCTT	5(
	CGATGCAGCT GCCATGCGCG CCAGAATCAG CGAAGGCATA CCCTTACGTC	10
15	GTTGGACGCA TGTTTAGATG CCTTTGAGAC CGCCCAGAGA AGTCCTTGTC	15
	CTTCTTAATA AACACCTCCT CGCCAACTGC GACGACCACA ATCACCGTA	19
	(2) INFORMATION FOR SEQ ID :84:	
20		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 214 base pairs	*
	(B) TYPE: nucleic acid	• •
	(C) STRANDEDNESS: double	•
25	(D) TOPOLOGY: linear	•
-		
.*		
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :84:	
30	CTTCGGTAGT GCCGCCGTGG TGCCACACAC CGTTGAGGTT GGAGTGGGCA	5
	CAGGCATGGT ACCACCAGCC TCCCCGCTGG TACAGGGCAC AGTTACCTGA	10
35	GGGGAGAGAG AGAGTCCATG TCCTCTCACC AGAATAAAAG CCTCTACCTG	15
	CACCTCACAG TGCAAGGCTT TTGCCAGGCA TCCCCTGGCC CCTCCCATTT	20
	NACNGAATAC AACC	21
40	(2) INDODUMENTON FOR CRO ID -055	•

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: base pairs

•	(B) TYPE: r eic acid	
	(C) STRANDE. ESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :85:	,
10	(XI) SEQUENCE DESCRIPTION. SEQ IS .CS.	
-0	CCTGGGCAAG CTGAATGTGA AGTTGACCAG GCTAACTGAG AAGCAAGCCC	. 50
	AGTACCTGGG CATGTCCTGT GATGGCCCCT	80
15	(2) INFORMATION FOR SEQ ID :86:	•
•	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 210 base pairs	
	(B) TYPE: nucleic acid	•
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		·
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :86:	
	GGGGATAGCT GGCTCATCCT CGGAAAACAG ACCCACATCT CTATTCTTGC	50
	CCTGAAATAC GCGCTTTTCA CTTGCGTGCT CAGAGCTGCC GTCTGAAGGT	ioo
30	CCACACGGCA TTGACGGGAC ACAGAAATGT GACTGTTACC GGATAACACT	150
	GATTAGTCAG TTTTCATTTA TAAAAAAGCA TGACAGTTTA TTACTCTGTT	200
35	TCTTTAATG	210
	(2) INFORMATION FOR SEQ ID :87:	
	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 102 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

6.

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :87:		
	CACAAAAAGC ATGATCAGGG CTAGCCTCAA TACAGGGAGA	AATCATGGAT	50
	ATTTAAAAAT ACTTTTTTTG ATTCAGATTC CGGTATGACT	GAAGANGCAA	100
10	CA		102
	(2) INFORMATION FOR SEQ ID :88:		
15	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 275 base pairs	•	
	(B) TYPE: nucleic acid		•
	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		. •
20			
	(xi) SEQUENCE DESCRIPTION: SEQ ID :88:		
25	GATAGGCGCA TGCATACTAC GGCTAAGGAG AAACAATGTT	CCTACATATT	50
	ACGGGCAGTG AGAACATTAT CTGTATAACA GGAACTGTGA	TTATTTAAAA	100
30	ATAGCAGAAC TTATCNGTCT GTGCTTTAGA AATAACTGTA	TACAGTGTTA	150
	TAAGTTGAAA AGAACTCAAA ATAACTAATA CAAATAAGAA	CCTACGTATT	200
	AGAATTCAAA AAAGCTGCTT TCTGTGAAGT CAATCAGCTA	TATTAAAAAA	250
35	TGACACAAAT TCAAAACACG ATCAT		275
	(2) INFORMATION FOR SEQ ID :89:		
	(i) SEQUENCE CHARACTERISTICS:		
40	(A) LENGTH: 263 base pairs		
	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double	•	

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :89:	
	GCCTGATGGT ATATACTGTT TTGCAATTGC ATACAACTGT GCATTACAAA	50
	TTAATAGTAA TTATGGTTTG GNNGTAAAAT CGAGTTTCAG AATAAAATNA	100
10	AAAACAATAA AATCCAAAGA ACGATGTAAA CAAAAAAGCT TTTGTTTTGT	150
	TACAAAGTAT ATTAAGGATT TTCTGCTAAG ATTCAGTTTA AGAGTTTTCC	200
15	TCGTGAAAAC TAAGTAGAAA CACAATGCCA ACAGCTGGCC AGTAATCAGT	250
	GCTGTGTACT CCA	263
	(2) INFORMATION FOR SEQ ID :90:	
20	(i) SEQUENCE CHARACTERISTICS:	
,	(A) LENGTH: 108 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :90:	
	GCGTCCTGCC CAACATCCAG GCCGTACTGC TGCCCAAGAA GACGGAGAGC	50
	CACCACAAGG CCAAGGGCAA GTGAGGCCGC CCGCCGCCCC CGAGGGACCC	100
35	CTTTGAGA	108
	(2) INFORMATION FOR SEQ ID :91:	
	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 206 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

· 5	(xi) SEQUENCE DESCRIPTION: SEQ ID :91:	
	GCCTTGGTGG AGGGCATGAG GCTATGATGA CTATTGGCTA TAATATGGAT	50
10	ATGGCTTTGG CTGATAGATT TGAAGAGACC TCAATTACGT TTTTCAGGAA	100
10 .	TGTTTGATCA TAGATACAGA GATGGTGGTC CAGTTTTCAG AGCACCACAG	150
	GGCACTGTGT ACACATGAGG GGTTACCTTA CAGAGCCACT GAGAATATAT	200
15	TAATAA	206
	(2) INFORMATION FOR SEQ ID :92:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 210 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :92:	
30	CCTTGGTGGA GGGCATGAGG CTATGATGAC TATTGGCTAT AATATGGATA	50
30	TGGCTTTGGC TGATAGATTT GAAGAGACCT CAATTACGTT TTTCAGGAAT	100
•	GTTTGATCAT AGATACAGAG ATGGTGGTCC AGTTTTCAGA GCACCACAGG	150
35	GCACTGTGTA CACATGAGGG GTTACCTTAC AGAGCCACTG AGAATATATT	200
	AATAAANNNG	210
	(2) INFORMATION FOR SEQ ID :93:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 189 base pairs

(B) TYPE: nucleic acid

	(C) STRANDEUNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :93:	
10	AGGACTTCAT CCCAGACTCA CTTGTTCTGT TACAGAAACT AACCTAAAAG	50
٠	GCTGGAAATT AAAGGATACA ACCTAAGAGG TTATAACAGC AGACTGGTAA	. 100
	AACATGGCGA AAGGAGCTCT CTCTTTCCCC GCAGTCTACC AAGCTCCTGT	150
15	GCATTTTCAC CACATAGATC TGCTAGCTTA CAAATGATG	189
	(2) INFORMATION FOR SEQ ID :94:	,
•	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 160 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
:	(xi) SEQUENCE DESCRIPTION: SEQ ID :94:	
30	GAAGTGACAG GNAAGCTACA GGTGTATAAC AAATTTGTAA ACTAACCAAG	50
•	CACAATGTGG CAGGGCCTAG CTGCTACAAA GAAGACAATT TAACAAATAC	100
	TCAACGCATG ACAAAAAACT CAGGACTGCA TTTGCACTAA TCGATAACGN	150
35	GTCATTTAAT	160
	(2) INFORMATION FOR SEQ ID :95:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 171 base pairs	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :95:	
	TGCTTTATAC ATNATNAAAG GTAGGCACTT CATAAAATTT GCATTTTGGT	50
10	AAAAGGCAAC AATTTGATGT CAGTATCTTA ATTGTGTCAT TAACTTTTTT	100
10	AAGAGAACAG ATTATCAAAA TTTTACGAAG AAGAAAAAA NTATAGTTTT	150
	TAAGGAAACT ACAGAAGGGA T	171
15	(2) INFORMATION FOR SEQ ID :96:	•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 131 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	,
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :96:	
	GTGGATAAGA AGATGTGTAC TTGGGAACAA GGCTAAAGCC ATTGGCTGAT	50
30	TTCCCCAACC TTTTTATTCG CGAAGAAACT CCAGTTGTTA ACTTTTTGAG	100
	AGTTTTTTT GGCAAAAGAA CTNCATTTAN C	131
	(2) INFORMATION FOR SEQ ID :97:	
3 5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 279 base pairs	•
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

(xi) SEQUENCE DESCRIPTION: SE	מד ה	:9/:
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•	GTCCTAATAT TTCTGTNCAG AAATTGTCAA CTTGACTTGA GAGTTGAGAA	50
5	GTAAAGTTAA GGCACTGACA ATATATCAGA ATGGAAGTCC TTAAGAGCAA	100
	CTAACAGGTT CTTGATCAGA CTGACTATCT TTTCTTAAGT TCATAATATN	150
10	TTACTGTCCA GCCAACTATA CTTGGATCAA AATATCCTTC ATGAAGGGCC	200
10	ATAATGTATT GATGATCTGC TGTAACTTTG AGAAGCTTCC TGAAGCTCNT	250
	TTTGAATAAA TTTATNGAAC TTATGAAGA	279
15	(2) INFORMATION FOR SEQ ID :98:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 266 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :98:	
	GTGAGTCTTT CTTCAACTAG GGGAATGTTT CCAGGGCACG CCAGGCCTCA	50
. 20	CTCACGCAGG CCTCCGCGAC AACTGTTCAG CACTGACTGA GGATGAAGTG	100
30	AAATCCTGAA AGCTGAGAGC CAGCGCCCTC ACACGAGGGC TGGGACGTAA	150
	CAAAAGCCCA TCAAGAGTTT TGCCCAGGGC TTTCTTGAGC CTTGAAGCAT	200
35	GACGAGACCA GGACCCTTTA GGATTAAGCA AGTTTTATGC GGTCTNAAAA	250
	AACTCCAGGG CCTCCA	266

(2) INFORMATION FOR SEQ ID :99:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 206 base pairs

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(vi) SPOUPNOE DESCRIPTION, SPO. ID 400.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :99:	
	GGGAACATTT ATTGACATGA AAAGGTGTTT CAGATATACT GATATGTCAA	5
10		•
	ACAAATAGTA AAACAACATA GAGTAATGAT TCATTTTGGT AAAAAATATA	10
	TATGTATATA TAGAAAAAA TTCTGCAGGA CATATGCTAA ATTGGTAACA	15
15	GTGCTTACCC CTGGGAAGGG GGTATACGAT GTTGATTTAC TCTTTGGGTA	20
	CGTATT	20
		20
	(2) INFORMATION FOR SEQ ID :100:	
20	(2) INFORMATION FOR SEQ ID :100:	*
20		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 73 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :100:	
30		
	CGCAACTNTC NCTAAACATC CAGTTTTCTA ATNTAATAAA AAATGGCAGT	5
:	AATTATCCTC ACCTCTCAGG GAA	7
		,
35	(2) INFORMATION FOR SEC. ID . 101.	
22	(2) INFORMATION FOR SEQ ID :101:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 108 base pairs	•
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

(xi)	SEQUENCE	DESCRIPTION:	SEQ	ID	:101:
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	GAGCACAATC ATGNGCAAGC GCAACAGCAC ACCTTTATCC GAG	TGAGACC	50
	ACTATGCAGC NGAACAGAGA CTTCTTATCT CTTCTTCTTG ATA	CTTGAAT	100
•	ACTGCCCC		108
10	(2) INFORMATION FOR SEQ ID :102:		
	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 210 base pairs	,	
	(B) TYPE: nucleic acid		-
15 .	(C) STRANDEDNESS: double	*. ·	
	(D) TOPOLOGY: linear		
**			
		•	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :102:		. *
	GAATTATCAA ACCATCNTTG CTGACATTAA TTTTCCAGCT TTC	GATCTTAN	50
25	NTCTNGCTTT AGTCCTCATA CAATGACTGT GTTTTTCTCA F.A.C	CGATNTAT	100
25	CGTATAGGNA TCCTTCTAAG CAATCCTGCA CCCACAAAAA AGG	CTGCATCT	150
	TCAATATAAC ANAAAAAGGN ATTTTGCAAA AAGTACAAGT TT	PATGTCTN	200
30	CTGTTAACTG		210
	(2) INFORMATION FOR SEO ID :103:		•

(2) INFORMATION FOR SEQ ID :103:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 76 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

40

35

(xi) SEQUENCE DESCRIPTION: SEQ ID :103:

	CGTAGTTCGA TTCGAGTGGT CTATACAATC ACACCAAGCT TGATGTTGAT	50
-	GTCACCAAAA TTTCTTTCCA AAAAAA	76
5	(2) INFORMATION FOR SEQ ID :104:	
	(i) SEQUENCE CHARACTERISTICS:	:
	(A) LENGTH: 167 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
10		
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :104:	
	CTTATGATTA ACTAAGCAAA TCTTTCATAG AAAGATATTA TCAAAGCTGA	50
		*.
	AGAAATGCAA ACTTNAACAA AGTGCCGTGA GATTCCGGAA AAACCCTTAA	100
20		
	CCGATTGAAT GGTTTTTTAA GAATAAAAA GAAGTCTGAT ACTGAACTAC	150
	AAGTCGCAAG GAACATC	. 167
		÷
25	(2) INFORMATION FOR SEQ ID :105:	
•		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 122 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
•		
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :105:	
		•
	TATCTGCATA TCTAAACATA GAAAAGCACA ATAAAAACAC ATATCATAAC	50
•		
	CTCACGGGAC CACCATCATA CAGCAATTTG TCATGATCAA AAGAAACATC	100
40		
- 7	ATTAGTCGTG CCATAACTGT AT	12:

(2)	INFORMATION	FOR	SEQ	ID	:106:
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	(1) SEQUENCE CHARACIERISTICS.	
	(A) LENGTH: 255 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :106:	•
	GAATTCTTCA CTCCAGATTT CCAATGCCAA GATACATTGA TACTGAACAT	50
	TO THE TOTAL PROPERTY OF THE PROPERTY AND THE TOTAL PROPERTY OF THE PROPERTY O	100
15	GGAGGCAACC AGGCCCGTTT CCTCCTTTCA AAGTCAACCC TCACAGACTC	100
·	ATAATAATAT GCATGCCTGG GGGCAGGAGT CTGGAGCACC TATTCTNACA	150
	AIMITATAL GENTACOTOS GOCCAGONOL OLOGICOS INITOLINION	
	GATGATGTTA TTTACAAGTG TTTATGGATC ACTTGAAGAA ACTTGCTGTG	200
20		
	TCCAGTGCTG CTTGAAGTGC TAATAATGTT AAAGACACTT AAGAAGATGA	250
	AATAA	255
25	(2) INFORMATION FOR SEQ ID :107:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 227 base pairs	
30	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(C) STRANDEDNESS: GOUDIE (D) TOPOLOGY: linear	-
	(b) Torobogi. Timear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :107:	
	GGACGTGAAT TGGTGGAATA TTTACAAAGA AAACTGTTTT CTCAAAACAC	50
•		,
	TGTTCATTGG TTGCAAGAAT GAATACTGAC TTCAGAACTC AAACAATGGA	100
40		•
	AGAACTTGCA TTTTTATGGA ACTCAGTATT AAAAGAAAAT ATAATGTGAT	150

	AGCACTTTGC AGATATGTCT AGACTGTGAT CTGAAGCATC GTAGTTTCCT	200
	ATACCAAGAN ACANTTATGT GGTAAAT	227
5	(2) INFORMATION FOR SEQ ID :108:	•
	(i) SEQUENCE CHARACTERISTICS:	
*	(A) LENGTH: 162 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :108:	
	GAAAAATNGC ATGAAAGAAG ACTCTTNNNN NGCCATACCA TGGTACAATA	50
20	ATCATNAAAA NACAANAACA AAAACAAACA CATAAAACCA CTCACATATA	100
	CATGTAGATA CAACAACNAT ATAATATCAA TAAAAAAAA ATAGNAAAAA	150
	AAAAAATAA CA	162
25	(2) INFORMATION FOR SEQ ID :109:	
	(i) SEQUENCE CHARACTERISTICS:	
·	(A) LENGTH: 154 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :109:	
	AATTAAAAAT ATTAAACAAA ACTACCACTC CTCCTTATTA AAGCCCATAA	50
40	AAATAAAAA CGAAACCCGA GAACCAAAAT GAACGAAAAT CTTTCGCTTC	- 100
40	ATTCATCGTC CCCACAATNC CAGGCCTACC CCCCATACTG ATCATTCATT	150

•	GTTT	-	J 7
	(2) INFORMATION FOR SEQ ID :110:		
5	(i) SEQUENCE CHARACTERISTICS:		
J	(A) LENGTH: 182 base pairs		
•	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
10	, , , , , , , , , , , , , , , , , , , ,		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :110:		
		,	
15	ATGTGCCAAG TAAAAAATCA ATTNGTNGCC TTTTTCCATT NCGCGGACAC		50
	CCATAGGCAC CAAAAAAGG TGCTAATAAG TAACATGTTT TAAGATGCAG	10	00
	AATAAGCTAT GGAAACAAGG AATGCTCCAA GTGTCCCAGT CTTTCTCCTT	. 1	50
20	AATAAGCTAT GGAAACAAGG AAIGCICCAA GIGICCCAGI CIIICICCII	· •	50
20	GCACTCCTTG TTAATAACAA TACACTATAT CA	1	82
		•	
	(2) INFORMATION FOR SEQ ID :111:		
25	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 94 base pairs		
	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		
20	(D) TOPOLOGY: linear		
30			
	(xi) SEQUENCE DESCRIPTION: SEQ ID :111:		
35	GAAGGTGAGA ATAGGGTAGG GGAAACAGTA GGACAGGAAG TATTCACGTA		50
	CNTCAAAACC AATGGTAGAA CATCACATTT CAAACTGCAA ACCA		94
	(C) TURBRUSETON FOR CRO. TR - 112		
40	(2) INFORMATION FOR SEQ ID :112:		
40	() CROUENCE CUMPACTEDISTICS.		

(A) LENGTH: 92 base pairs

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(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
·5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :112:	
	TAGGGCAGTG AAACCTAATC TGCCTGATGC TATAANTGAN TGAATTACAT	50
10		
	GNTCATTNGT TAAATTTTGT TCTAAACCCA TTAGGAAATT GT	92
	(2) INFORMATION FOR SEQ ID :113:	•
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 152 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
20		
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :113:	
25	GATTGTTTTT GCATTGCGTG TGTCACACAG CAGCACAAAG ACAATATATG	50
	TAAGCGTNNA TACACCAGAT TTGACACAAG AGATAGCGAA CACCACAAAG	100
	ATTAGGACAG ACCGCGTATA GTAGCTCTGA GGAACTCCAA GAATCTAGAG	150
30		
	GG	152
	(2) INFORMATION FOR SEQ ID :114:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 182 base pairs	•
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
4.5	(D) TOPOLOGY: linear	
	· ·	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :114:	••
	TTGGCACTGA CATCCAGGAC AACAAATGCA GCTGGCTGGT GGTTTCAGTG	50
5	TCTGCAACGG GCCACTCCAG AACAGTACCA ATCCTGAAGG AAAATACNTG	100
	GCAGAAGGAG GCTGAGAAAG TGGCTCCGTG AAGGCNCTAT AGAGGGCTGA	150
	TCTGCCAGCA TGTCTTCAAT ATGAGGAAGG CA	182
10	(2) INFORMATION FOR SEQ ID :115:	
	(i) SEQUENCE CHARACTERISTICS:	:
	(A) LENGTH: 182 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :115:	
	GGCACTGACA TCCAGGACAA CAAATGCAGC TGGCTGGTGG TTTCAGTGTC	50
25	TGCAACGGGC CACTCCAGAA CAGTACCAAT CCTGAAGGAA AATACNTGGC	10
	AGAAGGAGGC TGAGAAAGTG GCTCCGTGAA GGCNCTATAG AGGGCTGATC	15
30	TGCCAGCATG TCTTCAATAT GAGGAAGGCA NT	18
	(2) INFORMATION FOR SEQ ID :116:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 227 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

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(xi) SEQUENCE DESCRIPTION: SEQ ID :116:

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. •	GAGGTTCTTG AATATGTATT TTTTACTGAA AAAATCATTC ATAAANTAAC	50
	ATACAAAAT GTACAAACAC ATGAGTAAAT AATGTAATGA CAAAGGACTA	100
. 5	TTTTCGGAAA AGTGTTTTTT AAAACANNCT AGATTTCAGT GCAAAAATGT	150
	ACCCCTGGCA CCTCTTAAAA CGTAAGAGCA AGCTCAAAAA CACGTAGTGA	200
	TGGAAATAAG CTAGCTACGC TCAATGC	227
10	(2) INFORMATION FOR SEQ ID :117:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 172 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :117:	
	CGAGAGATTG GTAATGAGGA AGCAATTTGG AGGGGNGGAA GCTACAANGA	50
25	NNNNGGGAAT TACAACAATC AGTCTTCAAA TTTTGGACCC ATGAAGGGAG	100
	GAAATTTTGG AGGCAGAAGC TCTGGCCCCT ATGGCGGTGG AGGCCAATAC	150
	TTGCAAAACC ACGAAACCAG GT	172
30	(2) INFORMATION FOR SEQ ID :118:	
•	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 210 base pairs	
35	(B) TYPE: nucleic acid	
J.J	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	\-,	
	\cdot	

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(xi) SEQUENCE DESCRIPTION: SEQ ID :118:

••	AATGATGGAA GCAATTTTGG AGGTGGTGGA AGCTACAATG ATTTTGGAAT	50
	TACAACAATA GTCTTCAAAT NNGGACCCAT GAAGGGAGGA AATTTTGGAG	100
5	GCAGAAGCTC TGCCCCTATG NCGTGGAGGC CAATACTTTG CAAAACCACG	150
	AAACCAAGGT GGCTATGGCG GTTCCAGCAG CAGCAGTAGC TATGGCAGTG	200
	GCAGAAGATT	210
10	(2) INFORMATION FOR SEQ ID :119:	,
	(i) SEQUENCE CHARACTERISTICS:	
·	(A) LENGTH: 95 base pairs	·
15	(B) TYPE: nucleic acid	
13	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(2) 123 22 22 22 22 22 22 22 22 22 22 22 22 2	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :119:	
	GGTAAACACA AAGAGTTTCT GATAGTGTCT GCACAACAGC AAACCAACAT	50
25	TTGGTGAGGA ATTAGCAATT TCTTGCCAAA GAAAATTGAT TCTGC	99
· ·	(2) INFORMATION FOR SEQ ID :120:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 168 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :120:	
	GGAGTATTTN AANNTTTCAA ACTTTATTAC TTAATGAAAC AGTTTCTATA	. 5
40		
	TACTGCTTCC AATATACTTT AATCCTTTTT TTCTCGTTAA ATTTTTTTTG	10

	TTGTTCTTCA GTTGAGCTGA GATACTTTTA ATTACTTTTT ATTAACTGCT	150
	TCCAGAAACC GTAACAGG	168
. 5	(2) INFORMATION FOR SEQ ID :121:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 231 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :121:	
	GGAGTATTTA TCTTTCAAAC TCCNTACTNA GTGAAACAGT TTCTATACCA	50
	CTGCTTCCAA TTACTANCTN TTTTNTCNGT TAAATTTTCN NCTGTTTTTC	100
20	AGTTGAGCTG AGATACTTTT AATATNNNGT NACTGCTTCC AGAAACCGTA	150
	ACAGGTGCAG GAATAATTGA TGATATCCAA GTAGAGGCTG ATGNCAGCTA	200
25	ATACATACTT CGGTGACNTT ATGCATCATG A	231
	(2) INFORMATION FOR SEQ ID :122:	
	() CROUDING GUADAGEDICETOS	
20	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 174 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(b) Torobodi. Tinedi	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :122:	
	TCTATGGCAT GAATGTTTGC AACCAACNNN NNGGAAAGCC TTAAAGGAAT	50
40	AGCTGTTCAC ATAGGAGACC GTGACAATGC TGTACGCAAT GCTGCACTAG	. 100

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	ACACCATTGT ACGGTGTACA ATGTCATGGG ATCAGGTGTT CAAACTGATT	150
	GGAATCTTTC TGAAAAGGAT ATGA	174
5	(2) INFORMATION FOR SEQ ID :123:	
		•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 170 base pairs	•
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		*
		•
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :123:	
	CTNNACAGGA GAAGNAAGTA ATGATCATTC CCCAAAAATG TTCTGTTATC	50
20	AACTGNNTTT ATAAAAATC GATTGTGGGT AGAAGCAGAG AAAAGGCACT	100
20	TAGTAAAGAT ACTACATGAN GAAAAANNTC TGCCCTTTGA ATTCTTANGA	150
	AACATNNTNG NNGAATCAAT	170
25	(2) INFORMATION FOR SEQ ID :124:	
	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 157 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
,	(D) TOPOLOGY: linear	•
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :124:	
	AAGTAATGAT CATTCCCCAA AAATGTTCTG TTATCAACTG NNTTTATAAA	, 50
40	AAATCGATTG TGGGTAGAAG CAGAGAAAAG GCACTTAGTA AAGATACTAC	10
40	ATGANGAAAA ANNTCTGCCC TTTGAATTCT TANGAAACAT NNTNGNNGAA	. 15

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		81	
	<i>.</i> :	TCAATNT	157
	•	(2) INFORMATION FOR SEQ ID :125:	
5		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 169 base pairs	
		(B) TYPE: nucleic acid	•
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
10			
	•	(xi) SEQUENCE DESCRIPTION: SEQ ID :125:	
15		CAACTTGAAA TACATTATGA TGTCTGATAT GATTAAATAT CATTGAGNAT	50
		CTTGCAAACA AAAAAAGCAA AAAATTAAAT CTCCATATCA ATCTTAAATT	100
		CTTGGCATAT TTACTTCTGG TAAATATTAC TTCTGGTCCT TATTCTATAT	150
20			
		GTGTTATTGA AATTGTGTT	169
		(2) INFORMATION FOR SEQ ID :126:	
25		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 90 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
30			
		(xi) SEQUENCE DESCRIPTION: SEQ ID :126:	
35		GTTTNGTTNN NNNNTGTTCC ACCTTTTGTT GAATTTTAGT TGTTAGGCTG	50
	,	AACCTCCGAG CAGTTTNAGG ACTTGCCTGA GTTTTTCTTC	90

(2) INFORMATION FOR SEQ ID :127:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 160 base pairs

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :127:	
	TTTAGTTTAC TTCTGTTCCA CCTTTTATTG AAATATTAGT TGTTAGGCTG	. 5 ,0
10	AAAGCCTCCA GTTAAGAACT TGCTGAGTTT TTTTGTTCAG CAACTTGACA	100
	TTTACTATGC GCATTATATA NCTCAATTAT GTCTGTTTTT TATGCTAAGT	150
15	AGGAAAACCA	160
	(2) INFORMATION FOR SEQ ID :128:	
٠.	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 150 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :128:	
	GCCCACAACT TACATCCTCA TTATTGGCGC CTACAAACTC AACTACGAAC	5
30	ACACTCACAG TCGCATCATA ATCTTTTGAG GACTTCAAAC TTACTCGGCT	10
	ACCGCTTTTT GATGACTTCT AGCAAGCCTC GCTAACCTCC CTTACCCCCC	15
35	(2) INFORMATION FOR SEQ ID :129:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 182 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :129:	
_	AGAGAGACAG ACACCATGGA GCCACAGGGG CAAGAGGNNG NTTTCCGAAG	50
5	CAGGGGANNG GCTATCACTC GGACGGACCN NNGCTCAACG AGTCCCACGA	100
	GAACACACCA GAAATTTGTC ATTGCACTCA ACCAAAATCG ATATCAGCAA	150
10	TGAAAAACCC AAAACAGTTA CGANGCTAAT CC	182
	(2) INFORMATION FOR SEQ ID :130:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 219 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :130:	
25	GGACCATTCT GATCATCCTC ACTGGACGCC ACAGGGGCAA GAGGGTGGTT	50
	TTCCTGAAGC AGCTGGCTAG TGGCTTATTA CTGTGACTGG ACCTCTGGTC	100
	TCAATCGAGT TCCTCTACGA AGAACACACC AGAAATTTGT CATTGCCACT	150
30	TCAACCAAAA TCGATATCAG CAATGTAAAA ATCCCAAAAC ATNTTACCGA	200
•	TGCTTACTTC AAGAAGAAG	219
	(2) INFORMATION FOR SEQ ID :131:	
35		-
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 181 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	

GCTGGGCACA AGTTCATATG CCTATGAGTC AGTAAAGACT GAAGTAATGT CCTATGTTGA GCTGGTTATT TTGATATATG ATAATAATTA TCTTTGTAGT AGAACATCGT TAACGGAATC ACAGATATAT C (2) INFORMATION FOR SEQ ID :132: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 188 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 20 (xi) SEQUENCE DESCRIPTION: SEQ ID :132: GACCAGCAGC TGTGGACATT ATGAGAAAGT GAAACCTGAG ATCCNCTGTT 50 CATTGAGAAA TGCAACACCT CAAAATGNGG GACAGCTCCT GATTACCAGG TAGAAGATGN AAACAACTGG GGTGTCCATT CAGGAGGAAA CAATTGCAAG	•	(xi) SEQUENCE DESCRIPTION: SEQ ID :131:	
CCTATGTTGA GCTGGTTATT TTGATATATG ATAATAATTA TCTTTGTAGT AGAACATCGT TAACGGAATC ACAGATATAT C (2) INFORMATION FOR SEQ ID :132: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 188 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :132: GACCAGCAGC TGTGGACATT ATGAGAAAGT GAAACCTGAG ATCCNCTGTT 50 TAGAAGATGN AAACAACTGG GGTGTCCATT CAGGAGGAAA CAATTGCAAG CTAAGAACTG TTGAGAGTGA AGCTGCATT TCTGNACC 186 CTAAGAACTG TTGAGAGTGA AGCTGCATTT TCTGNACC (2) INFORMATION FOR SEQ ID :133: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 190 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		AATAATTCAT CCACTTATGG AGGAGGAGGA GAATGTGGAA GAGGTAAAAA	50
AGARCATCGT TAACGGAATC ACAGATATAT C (2) INFORMATION FOR SEQ ID :132: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 188 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID :132: GACCAGCAGC TGTGGACATT ATGAGAAAGT GAAACCTGAG ATCCNCTGTT 50 TAGAAGATGN AAACAACCT CAAAATGNGG GACAGCTCCT GATTACCAGG 100 TAGAAGATG TTGAGAGTGA AGCTGCATT TCTGNACC 188 (C) INFORMATION FOR SEQ ID :133: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 190 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	5	GCTGGGCACA AGTTCATATG CCTATGAGTC AGTAAAGACT GAAGTAATGT	100
(2) INFORMATION FOR SEQ ID :132: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 188 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 20 (xi) SEQUENCE DESCRIPTION: SEQ ID :132: GACCAGCAGC TGTGGACATT ATGAGAAAGT GAAACCTGAG ATCCNCTGTT 50 TAGAAGATGN AAACAACCT CAAAATGNGG GACAGCTCCT GATTACCAGG TAGAAGATGN AAACAACTGG GGTGTCCATT CAGGAGGAAA CAATTGCAAG CTAAGAACTG TTGAGAGTGA AGCTGCATTT TCTGNACC 186 (2) INFORMATION FOR SEQ ID :133: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 190 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		CCTATGTTGA GCTGGTTATT TTGATATATG ATAATAATTA TCTTTGTAGT	150
(2) INFORMATION FOR SEQ ID :132: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 188 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 20 (xi) SEQUENCE DESCRIPTION: SEQ ID :132: GACCAGCAGC TGTGGACATT ATGAGAAAGT GAAACCTGAG ATCCNCTGTT 50 TAGAAGATGN AAACAACCT CAAAATGNGG GACAGCTCCT GATTACCAGG 100 TAGAAGATGN AAACAACTGG GGTGTCCATT CAGGAGGAAA CAATTGCAAG 150 CTAAGAACTG TTGAGAGTGA AGCTGCATTT TCTGNACC 188 (2) INFORMATION FOR SEQ ID :133: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 190 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		AGAACATCGT TAACGGAATC ACAGATATAT C	181
(A) LENGTH: 188 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID :132: GACCAGCAGC TGTGGACATT ATGAGAAAGT GAAACCTGAG ATCCNCTGTT 50 TAGAAGAAT TGCAACACCT CAAAATGNGG GACAGCTCCT GATTACCAGG TAGAAGATGN AAACAACTGG GGTGTCCATT CAGGAGGAAA CAATTGCAAG CTAAGAACTG TTGAGAGTGA AGCTGCATTT TCTGNACC 186 (2) INFORMATION FOR SEQ ID :133: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 190 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	10	(2) INFORMATION FOR SEQ ID :132:	
15 (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 20 (xi) SEQUENCE DESCRIPTION: SEQ ID :132: GACCAGCAGC TGTGGACATT ATGAGAAAGT GAAACCTGAG ATCCNCTGTT 50 25 GATTGAGAAA TGCAACACCT CAAAATGNGG GACAGCTCCT GATTACCAGG 100 TAGAAGATGN AAACAACTGG GGTGTCCATT CAGGAGGAAA CAATTGCAAG 150 CTAACAACTG TTGAGAGTGA AGCTGCATTT TCTGNACC 188 30 (2) INFORMATION FOR SEQ ID :133: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 190 base pairs 35 (B) TYPE: nucleic acid (C) STRANDEDNESS: double		(i) SEQUENCE CHARACTERISTICS:	
(C) STRANDEDNESS: double (D) TOPOLOGY: linear 20 (xi) SEQUENCE DESCRIPTION: SEQ ID :132: GACCAGCAGC TGTGGACATT ATGAGAAAGT GAAACCTGAG ATCCNCTGTT 50 TAGAAGAAA TGCAACACCT CAAAATGNGG GACAGCTCCT GATTACCAGG 100 TAGAAGATGN AAACAACTGG GGTGTCCATT CAGGAGGAAA CAATTGCAAG 150 CTAAGAACTG TTGAGAGTGA AGCTGCATTT TCTGNACC 188 30 (2) INFORMATION FOR SEQ ID :133: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 190 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		(A) LENGTH: 188 base pairs	;
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :132: GACCAGCAGC TGTGGACATT ATGAGAAAGT GAAACCTGAG ATCCNCTGTT 50 25 GATTGAGAAA TGCAACACCT CAAAATGNGG GACAGCTCCT GATTACCAGG 100 TAGAAGATGN AAACAACTGG GGTGTCCATT CAGGAGGAAA CAATTGCAAG 150 CTAAGAACTG TTGAGAGTGA AGCTGCATTT TCTGNACC 188 (2) INFORMATION FOR SEQ ID :133: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 190 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	15	(B) TYPE: nucleic acid	
(xi) SEQUENCE DESCRIPTION: SEQ ID :132: GACCAGCAGC TGTGGACATT ATGAGAAAGT GAAACCTGAG ATCCNCTGTT 50 25 GATTGAGAAA TGCAACACCT CAAAATGNGG GACAGCTCCT GATTACCAGG 100 TAGAAGATGN AAACAACTGG GGTGTCCATT CAGGAGGAAA CAATTGCAAG 150 CTAAGAACTG TTGAGAGTGA AGCTGCATTT TCTGNACC 188 (2) INFORMATION FOR SEQ ID :133: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 190 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		(C) STRANDEDNESS: double	
(xi) SEQUENCE DESCRIPTION: SEQ ID :132: GACCAGCAGC TGTGGACATT ATGAGAAAGT GAAACCTGAG ATCCNCTGTT 50 25 GATTGAGAAA TGCAACACCT CAAAATGNGG GACAGCTCCT GATTACCAGG 100 TAGAAGATGN AAACAACTGG GGTGTCCATT CAGGAGGAAA CAATTGCAAG 150 CTAAGAACTG TTGAGAGTGA AGCTGCATTT TCTGNACC 188 30 (2) INFORMATION FOR SEQ ID :133: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 190 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID :132: GACCAGCAGC TGTGGACATT ATGAGAAAGT GAAACCTGAG ATCCNCTGTT 50 25 GATTGAGAAA TGCAACACCT CAAAATGNGG GACAGCTCCT GATTACCAGG 100 TAGAAGATGN AAACAACTGG GGTGTCCATT CAGGAGGAAA CAATTGCAAG 150 CTAAGAACTG TTGAGAGTGA AGCTGCATTT TCTGNACC 188 30 (2) INFORMATION FOR SEQ ID :133: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 190 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double			
(xi) SEQUENCE DESCRIPTION: SEQ ID :132: GACCAGCAGC TGTGGACATT ATGAGAAAGT GAAACCTGAG ATCCNCTGTT 50 25 GATTGAGAAA TGCAACACCT CAAAATGNGG GACAGCTCCT GATTACCAGG 100 TAGAAGATGN AAACAACTGG GGTGTCCATT CAGGAGGAAA CAATTGCAAG 150 CTAAGAACTG TTGAGAGTGA AGCTGCATTT TCTGNACC 188 30 (2) INFORMATION FOR SEQ ID :133: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 190 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	•		
GATTGAGAAA TGCAACACCT CAAAATGNGG GACAGCTCCT GATTACCAGG TAGAAGATGN AAACAACTGG GGTGTCCATT CAGGAGGAAA CAATTGCAAG CTAAGAACTG TTGAGAGTGA AGCTGCATTT TCTGNACC (2) INFORMATION FOR SEQ ID :133: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 190 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	20	(xi) SEQUENCE DESCRIPTION: SEQ ID :132:	
TAGAAGATGN AAACAACTGG GGTGTCCATT CAGGAGGAAA CAATTGCAAG CTAAGAACTG TTGAGAGTGA AGCTGCATTT TCTGNACC (2) INFORMATION FOR SEQ ID :133: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 190 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		GACCAGCAGC TGTGGACATT ATGAGAAAGT GAAACCTGAG ATCCNCTGTT	50
CTAAGAACTG TTGAGAGTGA AGCTGCATTT TCTGNACC 30 (2) INFORMATION FOR SEQ ID :133: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 190 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	25	GATTGAGAAA TGCAACACCT CAAAATGNGG GACAGCTCCT GATTACCAGG	100
(2) INFORMATION FOR SEQ ID :133: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 190 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	•	TAGAAGATGN AAACAACTGG GGTGTCCATT CAGGAGGAAA CAATTGCAAG	150
(2) INFORMATION FOR SEQ ID :133: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 190 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	30	CTAAGAACTG TTGAGAGTGA AGCTGCATTT TCTGNACC	188
(A) LENGTH: 190 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	30	(2) INFORMATION FOR SEQ ID :133:	
35 (B) TYPE: nucleic acid (C) STRANDEDNESS: double		(i) SEQUENCE CHARACTERISTICS:	
(C) STRANDEDNESS: double		(A) LENGTH: 190 base pairs	•
	35	(B) TYPE: nucleic acid	
(D) TOPOLOGY: linear		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	

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(xi) SEQUENCE DESCRIPTION: SEQ ID :133:

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	GAGGTTGGGT CGTTGCATCC ATCATCAGGA GTTGACTTGT	TCTGAGCAAC	50
	TGAACAGAAC ACACCGCGAT GCTCTCGACA CTCCGCTCCT	GGACTTCAGT	100
5	CACGAGTGAG TTGATGGTGA CTTGACCTGA GAGATTTCAC	AGAAGCTCTG	150
	TGACTTGGTT GTGGAAGAAA TCTGAACTGT TCAAGTTAAC		190
10	(2) INFORMATION FOR SEQ ID :134:		
10 .	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 235 base pairs		
•	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		
15	(D) TOPOLOGY: linear		
			•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :134	•	
20			
	ACATTACGAT CACTGATAGT TGGTGTGCGA CTGAAACCCA	CATTNTGGTC	50
	AATCTCCTCG TAGAGCTTCT TCTTCACCTG AGGATTGGCA	GCAGGAAGGC	100
25	CAGGGTCCAT TTAACTAAGA GGTGGTGATC TCCACGCCAG	CCCCAAAGAT	150
	GTCCCCTATA TGGTGAGAAT GNGTCATCTG AAAGCAGCTC	TGAGTCTTGA	200
	TCTGGGCCAG CATTGCCATT ATTGAGTTTA TCTAG	•	235
30	TOTAGGECTAG CATTACCATT ATTAGGITTA TOTAG		233
	(2) INFORMATION FOR SEQ ID :135:		
	(L)		
•	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 147 base pairs		
35	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		

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(xi) SEQUENCE DESCRIPTION: SEQ ID :135:

	GAGAAACAGT ACCATCCANG ACACGATGTG GTGGAGGTTG ACNCCGCTGT	50
	ACCCCAGAGG AGCNCCACCT GTCCAAGATG CAGCAGAACA CTACAAAATC	100
5	AACTATGTTT TTTAGCAGAT GCAGGACTAG ACCCCCACGC AGCTCTG	147
•	(2) INFORMATION FOR SEQ ID :136:	•
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 171 base pairs	•
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
4	(D) TOPOLOGY: linear	
		:
15		
		,
	(xi) SEQUENCE DESCRIPTION: SEQ ID :136:	
	GAAAATGNG TTGANCCATT CATCCACAAA TTGACTTGCC TGAACAACCA	50
20	CCAAACAATA CACTAATGNT TCACACNTTT NCTTTTACTT GNACNTTAAG	10
	NTCCCANTGA GTCACGGTGA CTTACCCTAA ACATCTCAAN NGTNNTCTGA	15
25	CTNAGAATGC GGAGGAGATC T	17
	(2) INFORMATION FOR SEQ ID :137:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 159 base pairs	•
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :137:	
4.5	ACATATATGT GGTAGGATAG AGAGATGGNN NNNGTGTATG ACATAGGTGT	5
40	TTCTCGTGTG ATGAGGGTTT ATGTGTTATG TGGGGTGAGT GAGCCCATTG	10

	TGTTGTGGTA ATATGTGAGG AGTATAGGCT GTGACTAGTA	TGTTGAGTCT	150
	GTAAGTAGG		159
5	(2) INFORMATION FOR SEQ ID :138:		
	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 179 base pairs		
	(B) TYPE: nucleic acid		
10	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :138	:	
	CCCACGACTT ACATCCTATN ACNCTTCGCC TAGCAAACTA	AAACTACGAC	50
20	NCACTCACAA TCGCTCATAA TCTCTTNAGG ACTTCAAACT	NTCTCTNTGA	100
	NCCTTTTGAT GACTTCTACA AGCCTCGCTA CCTCGCCTTA	CCCCNTGTNC	150
	TNCGGGAGAA CTCTCTGTGC TGTACCAGT		179
25	(2) INFORMATION FOR SEQ ID :139:		
	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 177 base pairs		
	(B) TYPE: nucleic acid	·	
30	(C) STRANDEDNESS: double	e e	
	(D) TOPOLOGY: linear	•	
•			
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :139	:	
	GACCTGGGAC GTAAATGATG AGACGGGTAC TTTGGCGGAC	ATGAAGGAAC	50
40	TGGCATATGG AACCTTGGCT GTGAAGCTGC AGACTATAAG	ACAGCATGAG	100
40	ACGACAATTC TGCTACTGCA ATGATGACAT CGTTTCAGAC	CACAAAAAGA	150

	ANGGEGATGA CEAGAGEEGE ANGGENG	1//
	(2) INFORMATION FOR SEQ ID :140:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 72 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	÷
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :140:	
15	GTTTACAACA TTTACATCCT ATGAACTCAT GGATTATAAA ACATTTGTGA	50
•		
	CTTATACTGT CTNTGTCAGT TA	72
	(2) INFORMATION FOR SEQ ID :141:	
20	(2) INFORMATION FOR SEQ ID :141:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 62 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :141:	
. 30		
•	GTNGGCTGAA ATGAAANAAT AAAACCAAGA AACGAATTTA AGTATTNGTT	50
	TTAGTACGNA AA	62
35	(2) INFORMATION FOR SEQ ID :142:	
	(2) Information for pag 10 .142.	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 127 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :142:		
_	ACCAGINNNI GATIGGIAAA IGGGAAATAI AATIGATICI GATC	CTCTT	50
. 5	GGTCAGCTTC TCTTTCTTTA TCTTTCTTTC TCCTTTTTTA AGAA	\ACGAG	100
	TTAAGTTTAA CAGTTTTGCA TTACAGG		127
10	(2) INFORMATION FOR SEQ ID :143:		
	(i) SEQUENCE CHARACTERISTICS:	,	
	(A) LENGTH: 198 base pairs		
	(B) TYPE: nucleic acid		
15	(C) STRANDEDNESS: double	er e e	
	(D) TOPOLOGY: linear		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :143:		
	AATATAAAAG ACAGCAGTTT CACATTTCAC ATATTTGAAA AACA	TTCAA	50
	AACCCTCTAA TAAGTATTTA ATGAAAATAA ATTTATCGAA GAGA	ACAAT	100
25	GACCACAAAA TTAATACTAC CAAATCATTA CTGAGACTTT TTGC	ATTACA	150
	ATATTTGGAG AGTAGGTGAA GAAAATATAG AACAGAACAT GNAC	ATTT	198
30	(2) INFORMATION FOR SEQ ID :144:		· .
	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 174 base pairs		•
	(B) TYPE: nucleic acid		
35	(C) STRANDEDNESS: double	•	
	(D) TOPOLOGY: linear		

(xi) SEQUENCE DESCRIPTION: SEQ ID :144:

GTTTCTCTNT ACGTCATCCA CCTTGACATG ATGGGTCAGA AACAAATGGA

••	AATCCAGAGN CAAGTCCTCC AGGGTTGCAC CAGGGNNTAC CTAAAGCTTG	100
	TTGCCTTTTC TTGTGCTGTT TATGCGTGTA GAGCACTCAA GAAAGTTCTG	150
5	AAACTGCTTT GTATCTGCTT TGNA	174
•	(2) INFORMATION FOR SEQ ID :145:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 156 base pairs	
	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	· · · ·
		:
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :145:	
	GAGAAATAGT ACTTTAAAAT AAAACTAACA TGGTTTGATC AGCTTGAAAT	50
20	AAGATTCATA AAATGTACCT TTTTTGATTG TTTTGTTCTN GAGTTTTCGA	100
•	TTGAGANCAT TTGGTAAAGA TAAAGAGGTT TCCTGGGTGG CAAAAAATTA	150
25	TTTTGG	156
	(2) INFORMATION FOR SEQ ID :146:	
· ·		
. 20	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 151 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(b) Totoboot. Timedi	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :146:	
	AAGATTCNNN NNTCCATTGA ATGTTACCTG TGCCAGAATT AGAAAAGGGG	50
40	GTTGGAAATT GGCTGTTTTG TTAAAATATA TCTTTTAGTG TGCTTTAAAG	100

٩i

	•	TAGATAGTAT ACTITACATT TATAAAAAAA ATCAAATTTT GTTCTTTAAT	150
			15:
· 5		(2) INFORMATION FOR SEQ ID :147:	
		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 177 base pairs	-
		(B) TYPE: nucleic acid	
10		(C) STRANDEDNESS: double	٠.
	•	(D) TOPOLOGY: linear	
15		(xi) SEQUENCE DESCRIPTION: SEQ ID :147:	
		CTTTATTTTT CTTATACAGA TTCAGAGAAG TAAAANNCAG TACCAAACTC	50
•.			
2Ò		CAGGTAANNT GGTTTGATCT GATCGATTTG GCTGCATACT TTCGGTACGT	100
20		ATAACATTCT AAACTTAAAA TAGAAATTTT TATATTACAA AACGAGGAAG	150
		TAAAATTTTA AAAGTTAAAG TACTAGC	17
25		(2) INFORMATION FOR SEQ ID :148:	
		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 148 base pairs	
		(B) TYPE: nucleic acid	
30		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
		, , , , , , , , , , , , , , , , , , , ,	
35		(xi) SEQUENCE DESCRIPTION: SEQ ID :148:	•
		GATTCHNNNN TCCATTGAAT GTTACCTGTG CCAGAATTAG AAAAGGGGGT	5
		TGGAAATTGG CTGTTTTGTT AAAATATATC TTTTAGTGTG CTTTAAAGTA	100
40		GATAGTATAC TTTACATTTA TAAAAAAAAT CAAATTTTGT TCTTTAAT	14

•	(2) INFORMATION FOR SEQ ID :149:	·
	(i) SEQUENCE CH. ACTERISTICS:	
*	(A) LENGTH: 204 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :149:	
	AGATTCNNNN NTGGNATTGA ATGTTACCTG TGCCAGAATT AGAAAAGGGG	5 0
15	GTTGGAAATT GGCTGTTTTG TTAAAATATA TCTTTTAGTG TGCTTTAAAG	100
	TAGATAGTAT ACTITACATT TATAAAAAA ATCAAATTTT GTTCTTTATT	150
20	TTGTGTGTGC CTGTGATGTT TTTCTAGAGT GAATTATAGT ATTGACGTGA	200
	ATCC	204
	(2) INFORMATION FOR SEQ ID :150:	•
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 93 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :150:	
35	AACATCGAGG TCGTAAACCC TATTGTTGAT ATGGATCTCT ATGAATAGGA	50
	TTGCGCTGTT ATCTCTAGGG AACCTCACCG TTGGCAAGTT ATT	93

(2) INFORMATION FOR SEQ ID :151:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 151 base pairs

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :151:	
		• •
	AATCGAGAGA AAAAATGATG ACACTGTAGC AATATCGTCG GANTCCACCT	50
10		
	ACTITGGGAT CAGCCTATCC ATCCGTGTCT TCCTATTTAA ATCGTCTATC	100
	CTCTATCCTT CCCCTGTCTT TTTNTGAAAA GGAAAAAAAC CAGGAAGGTG	150
15	T	15:
10 ,		15.
	(2) INFORMATION FOR SEQ ID :152:	. *
	(2) 1110.011110. 101. 052 15 11021	•
•	(i) SEQUENCE CHARACTERISTICS:	. , . :
20	(A) LENGTH: 109 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :152:	
-		
30	TCTGAGAGGA ATACTNNTAA GTGCAATGAA TATTGCAAAT TTTCCCCCCT	50
30	CTAAGTAATT CCCGATATTA GCAAANCANN NANATTAATG TCCCAGTGAA	100
	CIAGIAII CCCGIIIII GCAANCANI NANAIIANIG ICCCAGIGAN	100
	TGTAGCCTC	109
		20.
35	(2) INFORMATION FOR SEQ ID :153:	-
		•
	(i) SEQUENCE CHARACTERISTICS:	
• •	(A) LENGTH: 136 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

AAAATTATTT TCACAGTCCC CCCCAACTCT CATTGCGTCG TTAAAGTCCC

(xi) SEQUENCE DESCRIPTION: SEQ ID :153:

5		
	TCCAATCCTT TTTTAGTTGT GAAAAAATAA GGGGCCTTTA AAGGAGGAGG	100
	AGGAAAAGGG GAAAAAAACC CATAATGGGC CTAAAA	136
10	(2) INFORMATION FOR SEQ ID :154:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 160 base pairs	
	(B) TYPE: nucleic acid	•
15	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :154:	•
	CATCTTCATC ACCATCACAA TACTCATCAT CACCACCCTT CATNCACTAT	. 50
	CATCTTCTAT GACTGCAAAC TTCTTATCTT TCTCTTCATT ATAGAAAGTT	100
25	TCAAGATGAG TATACGCATC TATCATTCGA ATTGTGTCAT TAATTTGTAG	150
	GGCCTCATTG	160
30	(2) INFORMATION FOR SEQ ID :155:	•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 191 base pairs	
	(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :155:	
	ACCAGTNNNN NNNGGTCAAA TAGGGAAATA TAATTCGATC TCTCGAATCA	50

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		ACTCTCTGGG TCAGCTTTCT NCTTNTCTTC TATCTTTNCT	TNTCTCCTTT	100
	4	TTTTAAGAAA AACGAGTTAA GTCTTAACAG TTCTCGCATT	ACAGGCTTGT	150
5		GACTTCATGC TTACTGTAAA GTGGAAGTTG AGATATTTTA	A	191
		(2) INFORMATION FOR SEQ ID :156:		
		(i) SEQUENCE CHARACTERISTICS:		
10		(A) LENGTH: 139 base pairs		
		(B) TYPE: nucleic acid		
		(C) STRANDEDNESS: double		
		(D) TOPOLOGY: linear		
15				
	,			
•		(xi) SEQUENCE DESCRIPTION: SEQ ID :156	•	
20		CAACTGAACG CTTTGGTCAG GCTGCTACAA TGGAAGGAAT	TGNGGGCNAN	50
20		TTGGTGGAAC TCCTCCTGCN NTCAACCGTG CAGCTCCTGG	AGCTGAATTT	100
		GCCCCAAACA AACGTCGCCG ATACTAATAA GTTGCAGTG		139
25		(2) INFORMATION FOR SEQ ID :157:		
		(i) SEQUENCE CHARACTERISTICS:		
		(A) LENGTH: 172 base pairs	•	
	•	(B) TYPE: nucleic acid		
30		(C) STRANDEDNESS: double		
		(D) TOPOLOGY: linear	•	
35		(xi) SEQUENCE DESCRIPTION: SEQ ID :157	:	
		GGTACAGAGC ACTCTGTACC AACACACAGA ATTTACTGTT	CTGCAAATGA	50
4.5		CCAATACTAA AAATTTATAA AGATGTGCAC AATTNNNNGC	AGGCAATCTT	100
40		TOTTTTCTT ACABGATACA ACATTTAACA CTTATTAAA	СТААТССТСА	150

•	AGCACCCGCA AATTTACCTT TG	1/2
	(2) INFORMATION FOR SEQ ID :158:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 93 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		٠.
	(xi) SEQUENCE DESCRIPTION: SEQ ID :158:	-
15	GGGTGGCTGT TNNGTATATC TCGTTAGTAA ATGTACATGC TCTTCAGGTT	50
•	CTAGGGCTCC TGTTAGGGGA GGGAGAAATG TTGGAAGNGG GGG	93
20	(2) INFORMATION FOR SEQ ID :159:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 102 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
÷	(xi) SEQUENCE DESCRIPTION: SEQ ID :159:	
30	GNATTTTTT ATTGATATAT CATAGTTGTA CAAACATTTG GGAGTNCANG	50
	TNGATACTTT GATACTATCG TGTNNNNNGG ATAATCACCA AATTGGATTC	100
35	CA	102
•	(2) INFORMATION FOR SEQ ID :160:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 205 base pairs	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

3	(XI) SEQUENCE DESCRIPTION. SEQ ID .100.	
	GCTTTTNNNN NNNNNNNNN AGGTTTATAT TTACAATAAT TATCTTCCTA	50
	TAGAAGCAAT AANNCNAGTA TTCTCCAGTA ACAACACANN NNNATATTCT	100
10	ACTCATCAGA GTTGGGAAAA ATAGGAATAA AGCAGATTCC ATACAGAAAT	150
	ACCGTACTCT GCATATGTAC AAATAAATTC AATATATTAA ATCATTTTGA	200
15	GCGGA	205
	(2) INFORMATION FOR SEQ ID :161:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 150 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :161:	
30	AACTTTTTTA ATGGGTCTCA AAATCTCTGA GACAAAATTA CTNNGNNNAA	50
30	AGTTGTTTTC CATATAAAAA ANNNNNTGA TTTTTAAAAA ACTAANNAAC	100
٠	TTAAAAACNT GCCACACGCA AAAAAAGAAA CCAAAAGTGG GNCACCAAAA	150
35	(2) INFORMATION FOR SEQ ID :162:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 77 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :162:	
	TATTCAAAAG AAAAACATGG GTAAAAATGA TAGTGTTAAA TCTTGGCTCT	50
5 ·	GTGTACATAG ATAGATACCT GTTACAG	7
	(2) INFORMATION FOR SEQ ID :163:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 182 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :163:	
20	GAAAATTATT TTCACATCCC CCCCAACTTC TTGCTCTTAA TCCTCATCTT	50
	TTAGTTGAAG AATAAGGCTT AAGAGAGAGA AAGGAAAAAC CATAATGGCT	. 10
	AACTTAGCAG CACAACACGG TTCTTTTATC AAGGCGTNAT CATCATTTCT	150
25	CAAACTGACA TGCTACAGAA ATGTCTTCCA AA	18:
	(2) INFORMATION FOR SEQ ID :164:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 182 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	-
35		
-	(xi) SEQUENCE DESCRIPTION: SEQ ID :164:	
40	GAGGGAGCAA AGAGAGCCAT AAAGGCTCGT GCTGGGAAAG AAAGCTGTTA	5
	TGCTTAGACT TCTCTAGGTG AACTCAGAGT CTTCAAAGAG GAAATGTTAC	10

	AAATTGTCAC CCGCCAGCTT TCTGGCCAGT AAGCAGAATG CCAGGTTGCT	150
•	CAGATTCACA GACATTTGCA AAACAGAAGA TG	182
- 5	(2) INFORMATION FOR SEQ ID :165:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 119 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
•		
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :165:	
	,,,,,,,, .	
	GTATCTCCCT CTACATCCCT CCCGAAATAC TAGGAATACT TATTCTATAT	50
	GAGACATATA TACCACCCAA GTTTTAACAC CATATCCCAT CGGCTGTTAG	100
20	TGTATAAA AAGAAATAA	119
	(2) INFORMATION FOR SEQ ID :166:	
25	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 193 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
,		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :166:	
35	GTACAAAGCC ACTCATCCTC GTGTGCCTAT CACGTTTTCC AAACACATAG	50
,	GATCCCATCT CAGGAGCAGG ACCAGTGTTT AGCTAGATTA AACTTCGCTG	100
. 40	GTGATCTTGT TGATGCATAT AAAGTAATCT GGCATATATG GTTAAATTCA	150
40.	AGATGTTATG GCAGAAGTGA CTTGTTTTGC TCAACAAGCA TTG	193

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 185 base pairs(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		٠.
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :167:	
	GTTCTGACTN AGAACTGAGC ACATAGCATT GACGCGGTAC CCTTGGAGAG	50
15	GGTGTGCTAG GAGGAGTGCT TGGCGAATTT GGACACGTAC TAATGTCTCT	10
	GAGCCAGTCT GAATCTCTGT GAAGATGCCC CAGTGGAGGT GGCTGAAGAT	150
	TAAATGGACA GTTTATAAAG TGTTCTGG? GCCGA	18
20	(2) INFORMATION FOR SEQ ID :168:	•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 163 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :168:	
	GGACAACACA GCACCCATCC ACTACCCATT CAGAATTTAT ATAGAATATG	5
35	TACCCATGAT TATCTAGGTG AATCAATGCA ACAGTAGCTC TGATGTCCAG	10
	ATTTCCTAGT CTATTATTTT GTGTACAGAT CCTCTAACCA CTTAGAAATA	15
	ATTTTTAAAA ATA	16
40	(2) INFORMATION FOR SEQ ID :169:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 202 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

	(xi) SEQUENCE DESCRIPTION: SEQ ID :169:	
10		•
	AGACAAATTC NNNNTNNNN NTGCCTGATA ATTTCAGATG CCACCGTATA	50
	GCAAAGGGTG AACATGTTTT CAACCCTTTA ACTTTTTACG GTGTTTGAAG	100
15	ACCAGCTACT CCTTAATATT TATCAATGGA TTAAGAAGTT TAAGATTTTG	150
	CAGATTTACA ATTTGGGTTT TTGTCTGGAG TTGCTTCGGT TTGAAGCCCC	200
	O.M.	202
20	CT	202
	(2) INFORMATION FOR SEQ ID :170:	••
• •	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 168 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :170:	
	TCAGGGAACC AAAAACTGG CTTGCTTGGC ACCCAGGGAC AGTAGCTGTT	. 5
35	TGGCTCTCCA CCCAATTAAA AAAACAAATC CCTGCCCTTT CCCCCACCCC	10
	ACTAGCTAAG CAAGAGCAGA GCTCTGATGA AGAGCCAGTG CCGGGTGCCT	15
	GGTGCCCAGG GCTGTAAA	16
40	(2) INDODYNATON BOD CDO ID 171	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 144 base pairs

	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :171:	
10		•
	AGAAGTCAAC TAAAGCTTCA ATGCATCAAT TTATAANGCC TCANAGATCA	50
	GCAATTTATG ACACTTACAT TTACAGTCGA CCTTTACTAA CCAGGCAAAC	100
15	TTCCCGAAAT GATCAGGACT GATTCATCTC CTGAAATTNN CNGT	144
	(2) INFORMATION FOR SEQ ID :172:	· · ·
	()	,
20	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 91 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(5) 101020011 12.1021	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :172:	
	ACCCACAGNN NNNACCTAGA GGCCCAGCGC CCAGAGAGGC ACGTAGAAAT	50
30		
	GGGGACAGCA CGTTTATAGA CCACCAGAAA TTGAAGAGGA A	91
	(2) INFORMATION FOR SEQ ID :173:	
		•
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 204 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

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(xi) SEQUENCE DESCRIPTION: SEQ ID :173:
GATTTTTTAA TGGGTNGCCT CTTTTAGCTT GGAATATTAC GTTTACTTTA
ATCCAAGTCT AGGCCTTTTA AAGGGTCCTT AAAATTAAAG TTCAGAATGT 10
GAATCCCTTT GACATCTATT ACAGGTTATA GGACCTTTTT GGTGTGATTA 15
CGGTTTTCAA TACGATTGTA TAAATGAAGT TAACTTGGCA GAAGTTAAAA 20
TGGA 20
(2) INFORMATION FOR SEQ ID :174:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 241 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear
(xi) SEQUENCE DESCRIPTION: SEQ ID :174:
GTAAATTTCA CTACATCTTT TNNTNTGACT TTCATGCATT TCTCATACAT 5

25	GTAAATTTCA CTACATCTTT TNNTNTGACT TTCATGCATT TCTCATACAT	50
	TNNTNNCNGA TGCTTGACTT TATTGCTTCC TAGCAATAAT CTGCATTTAA	100
30	ACGAAAGGCG GTTCAATTCA TCAACTTGAA ATGACTATTT ATTTTTNAGG	150
30	ATTTTTAGG GGAAGAGTAC CCATTTCGTT TATAAAAACA GATGACAAAT	200
	TTCTTAAAGA AACAGAAGCA CAATACTTTC GAAATACAAC G	241
35	(2) INFORMATION FOR SEO ID :175:	

(2) INFORMATION FOR SEQ ID :175:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 211 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

104

(xi)	SEQUENCE	DESCRIPTION:	SEQ	ID	:175:

50 GGTGGGCTCN NNNANNANNG TTCTACACTG TGGTATAAAC TTGTCGTGGT TCTCGTGATA GAAAACAGAC ACTGACCTTG GGTATAGTGG GCCTATAAAT 100 AACAAACCCT TGGGTACTCC TGAATAGGGG CAGGGCCCCC TGGGCCTCCC 150 TTACAGGTTT CTTCAGGGAA ATGGTCCCTG GGATAATTCT TTAGGGCCCT 200 10 211 TTGGCCCTTT T (2) INFORMATION FOR SEQ ID :176: 15 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 252 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 20 (xi) SEQUENCE DESCRIPTION: SEQ ID :176: 25 AAAATAAGAA TAAACATCCA TAATAGTNAT AGATANATCC NTTTATTTAG 50 NACATCAGCA ACGACTGCTT CACACCAAAT CCCTTCCTCT GNGAATGATN 100 TATATAACTC TAGTACTGCT TTCCATGAAG AACCTTGCAA ATTGATTGAA 150 30 200 AGTCCAGGAT NNCTCGCTAA TCCTCCACCA TAAGATTTCT GACCTATGAT AACTCCAAGG TGGCAAACAG AGAAATCAAC TTCCTTATAA ANAAATCCNA 250 35

(2) INFORMATION FOR SEQ ID :177:

AT

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 279 base pairs

(B) TYPE: nucleic acid

(C)	STRANDEDNESS:	double
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(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID :177:

	GCGGGCGACT TTCCATCCCT CGAACCAAGG CATGTTAGCA CTTGNCTCCA	50
10	GCATGTTGTC ACCATTCCAA CCAGAAATAG CACAAATGCT ACTGCGCGAG	100
	TTGCAGCCAA TCTTCTCAAA GCAAACCGAC TTCCTAACAA CTNTCTACAT	150
15	CTGGCTCGCT GCAGGCGACT CAATGAAATC CATCTTTAAC ACCACAATCA	200
	TTGTTTNACA CCCAGTGTGC AAGCCAGGAG GGCATGTTCT GAGTCTNTCC	250
	ATCTGAAGAT ACCAGCTTCA AATACTAAT	279
20	(2) INFORMATION FOR SEQ ID :178:	•
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 157 base pairs(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :178:	
	TATGCCCTGA AATGAAACCT CTAAGTTTGA CAAAATACCC ACAAAAACAG	50
35	ACCTTCCTNG TTAACACTTT ATAAGAAGGT GTGACATTTG GTGGGTGGTC	100
- -	GTTCTCAATT TATAAAANAA TAAATGACTT TAAAGGAGAA ATAAATTTAT	150
	GTCAGGA	157

40 (2) INFORMATION FOR SEQ ID :179:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 39 base pairs(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :179:	
10	GATAATGCAA CTTTTGACAG GAAAGCGCGA TTTTACTAT	39
	(2) INFORMATION FOR SEQ ID :180:	•
	(i) SEQUENCE CHARACTERISTICS:	:
15	(A) LENGTH: 157 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
20		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :180:	
25	GCAAACTCAA ACTACGGACG CACTCACAAT CGCTCATAAT CCTCTCTAAG	50
23	GACTTAAACT CTACTACACT AATACTTTTT GATGACTTCT AACAAGCCTC	100
	GCTAACCTCC CTTACCCCCC ACTATTAACA CGGGAGAACT CTCTGTCTAG	150
30	TACCACA	. 157
	(2) INFORMATION FOR SEQ ID :181:	
	(i) SEQUENCE CHARACTERISTICS:	•
35	(A) LENGTH: 195 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

(xi) SEQUENCE DESCRIPTION: SEQ ID :181:

	• •	CCATCCAGGC CAAATAAGCN CCGGCTATGC CCNTGTATTG GATTGCCACA	50
	·. ·	CGNCTCACAT TGCATGCAAT TTGCTGAGCT GAAGGAAAAG ATTGATCNCC	100
5	٠	ATTCTGGTAA AAACTGGAAG ATGACCCTAA ATTTTGAAGT TGATGATGTG	150
		CCATGTGATA TGGTTCTGAC AAACCCATGT GCGTTGAGAG CTTTT	195
		(2) INFORMATION FOR SEQ ID :182:	
10			
		(i) SEQUENCE CHARACTERISTICS:	
	•	(A) LENGTH: 146 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
15		(D) TOPOLOGY: linear	
			•
	•		
		(xi) SEQUENCE DESCRIPTION: SEQ ID :182:	
20			
		CATGGTCTTA ACCAGTGTCA GATGGAATCA GTGGATAAAT CCCCAGGTTT	50
		GTTTGTCCTT CAAATGGGAC AATTTGAGGA ATGCTTTAGG CAGAGGACTC	100
25		AGATGACAGA GCGCCAACCA CCCACAATAG AAACCTGCTC ATCACA	146
		(2) INFORMATION FOR SEQ ID :183:	
20		(i) SEQUENCE CHARACTERISTICS:	
30		(A) LENGTH: 50 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	•
35			
			•
		(xi) SEQUENCE DESCRIPTION: SEQ ID :183:	
		TAGAGGAATA GGGNNNGNGA CGCCCCNAGT TGTAGGGACG GACGGAGGAC	50
40			
		(2) INFORMATION FOR SEQ ID :184:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 248 base pairs(B) TYPE: nucleic acid

(C) STRANDEDNESS: GOUDIE	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID :184:	•
TO THE STATE OF TH	50
ACGNTTACGG TCACTGATAG TTGATGTGCN NCIGAAACCC ACATCCGATC	. 50
AATCTCCTCA TAGAGCTTCT TCTTCACCTG AGGATTGCGC AACAGGAAGG	100
	٠.
CCAGGATCCA TTTACCACAG AGGCGGGATC TCCACGCCAA CCCCAAAGAT	150
GTCCCCTATG ACGACGAGAA TGTGATTATC TGAAAGCAAC TTGATCTTGA	200
TCTGGGCCAG CATGCCTCAT CTGATTCATC TCGCTTCCAT CAATGNGT	248
(2) INFORMATION FOR SEC ID :185:	
(2) INFORMITON FOR DDG 15 -1051	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 113 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEO ID :185:	•
(**2)	
AATGATGAGT AAAAGATTCA ACAACTCACA GCCCTGGGGG CACTCAGGCT	5
	•
ACTGCTAAGG CCTGAGAGTT TTGCAAAAAT GCGCAGAGAA ACACCCTTTG	10
AACGTGGCTT TCT	11
(2) INFORMATION FOR SEC ID :186:	
(2) Intolumeton for one in the	
(i) SEQUENCE CHARACTERISTICS:	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :184: ACGNTTACGG TCACTGATAG TTGATGTGCN NCTGAAACCC ACATCCGATC AATCTCCTCA TAGAGCTTCT TCTTCACCTG AGGATTGCGC AACAGGAAGG CCAGGATCCA TTTACCACAG AGGCGGGATC TCCACGCCAA CCCCAAAGAT GTCCCCTATG ACGACGAGAA TGTGATTATC TGAAAGCAAC TTGATCTTGA TCTGGGCCAG CATGCCTCAT CTGATTCATC TCGCTTCCAT CAATGNGT (2) INFORMATION FOR SEQ ID :185: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :185: AATGATGAGT AAAAGATTCA ACAACTCACA GCCCTGGGGG CACTCAGGCT ACTGCTAAGG CCTGAGAGTT TTGCAAAAAAT GCGCAGAGAA ACACCCTTTG AACGTGGCTT TCT (2) INFORMATION FOR SEQ ID :186:

(A) LENGTH: 148 base pairs

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(B) TYPE: nucleic acid(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :186:	
10	GGGCCCCCTG ATCAATTCTT TGGATGCTTT TCAAATTTCC CAGGATCCCG	5
	ATGTCGTCAT ACACTCCGAA CATGACCCTT TTTTCTTCCA ACGATCAACC	10
	ACTNCGNGGG ACGGGAGAGT GAGCCTTATA CCGATCAATC TGCACACC	14
15	(2) INFORMATION FOR SEQ ID :187:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 248 base pairs	. 1
	(B) TYPE: nucleic acid	•
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	• .
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :187:	
	TCCTTACTGT AAGAGCCATT TAAACGATTA AAATCCCACT NGCCATACCG	50
30 `	TAAGATGATA GGACCAACCA TACCTACCGA TCAAAAATTT ATCAATCCAA	10
	GCCAACTACA CTCCCACTGC TAAAAAGATG AAAGGACCAA TCAAAGATTT	15
	AATTAAACTA AAGGGAAAGA ATCAGAGACA GAGAATGAAG AAAGAAATTC	20
35	TAAGTTGCGA CGGACAAACC AGAACAGACA ATGAAGCCTT TCAACTGC	24
	(2) INFORMATION FOR SEQ ID :188:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 146 base pairs	
	(B) TYPE: nucleic acid	•
	(C) STRANDERNESS, double	

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :188:	
	TATGAAGAAG TGCAGCACTG GCCAACACCA GGGTTTACTG AATCATTTCA	5(
	GTTTAATACA TAAGTGTCCA ATAATAATGT CAACCCTCCC TCGCCACAGC	100
10	CAATAATTTG TCCTCACTGA "GTTGGCAACA" AGTGACTGCT GTGACT	140
	(2) INFORMATION FOR SEQ ID :189:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 81 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :189:	
25	ATTTACCACA AGGGACGATT TCCACACCAA CCCCAAAAAT GTCCCCTATG	5
	ACGACGAAAT GTGTATTTGA AACAGCTCTG A	8
20	(2) INFORMATION FOR SEQ ID :190:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 136 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
33	(b) 101000011 11:001	
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :190:	
40		_

	• •	GAGCAAGAAT TGAAGATGCA CAAACTTCGT TCTGAATTTG TGAGCTTCCT	100
	• •	GGATCAACTG AAGAACTTCT GAGGATTGAC CTGTCA	136
5		(2) INFORMATION FOR SEQ ID :191:	
		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 152 base pairs	•
		(B) TYPE: nucleic acid	
10		(C) STRANDEDNESS: double	*
		(D) TOPOLOGY: linear	
	,		
15		(xi) SEQUENCE DESCRIPTION: SEQ ID :191:	
		AGGATTTAAG ATGGGGACAG ACTGGTGAAA ATGCGGCTGA CTGGAAGGAA	50
20		ATGGGGCATA CGAGTAATAT GTACATATCA AACAATCAAT TGCCTCCTGA	100
· a		AATCAAAAA TCAAATGGTG AAATGGAGCC TCCTTGATAG TTTAGGCCAA	150
	•	CA	152
25	•	(2) INFORMATION FOR SEQ ID :192:	
		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 65 base pairs	
		(B) TYPE: nucleic acid	
30		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
35		(xi) SEQUENCE DESCRIPTION: SEQ ID :192:	
		TAAGCGAGGN NGTCTTTGAT TGCGTAGTAA GGTAAAGACG ATTTTATAGA	50
40		ATNAAGGTGA TTCCT	6
, -		(2) INFORMATION FOR SEQ ID :193:	

11:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 2 9 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :193:	
10	AGGACCCAAA CTACCTTATT GCATTTGAAG TTTTACTTAT NCTATTATAA	50
	TCTAAGAGCC CACCCAACAA GGCACTACAC ATAGATGCTC ACACTCTATA	100
15	GGCTGCCTGA TCCTGGACCA CCTGGGGCCC TGATTATGAT CTCCACGGGG	150
	CTGTCAATGA CTAGGGAAAG CTTTTTAAGA CCCAGCGATC ATGCAATGGC	200
20	TCAACCATGG CGAATCAAAG TTAGCATAAT GTCCCAGCAA ACAATGTTA	249
20	(2) INFORMATION FOR SEQ ID :194:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 194 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	·
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :194:	
	GGAAAGGGTG CCTCATCCCA GCAACCTATC CTTGTGGGNG ATGATCACTG	5
35	TGCTGCTTGC NNCTCATGGC AGAGCATTCA TGCCACGATT TAGGTGAATC	10
	GCTGCATATG TGACTGTCAT GAGATCCTAC TAGATGATCC TGACTAGAAT	15
40	GATAATTAAA AGTATTTACT TCGAAGCACC ATTTGAATGN TCAT	19
40	(2) INFORMATION FOR SEC ID .195.	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 121 base pairs(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	,
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :195:	
10		-
	GTGATTTTAG TTTAAGGATA AGAAGCCACT ATATCAACGT CGGGGGGGTA	5
	TTTAAGTCAC ACACATAGTT AACAACNCNC GTNGCGTGCA ATAAATACCA	10
15	CATCCTTTNA TATGNNCNGN A	12
13	CALCULTURA TATORNOLON A	
•	(2) INFORMATION FOR SEQ ID :196:	1.1
•	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 175 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
25		
	(will decumpe pecontomion, dec in .196.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :196:	
	GGGCTTCNNN NNNNNCATG TGCACTTAGA ACCGTTACTA ACCGAAACAC	5
30		_
	CATTTGCTTG TCAACAATGT ACCCTTGACA GCAGGGAGAA ACTTCTTTAT	10
•		
	AGTCTCTGCT TCAGACAAGA TTTACNGCTT TCTCCAAGGC CAGAGGCAAA	15
35	TTGTGACCAC AAGTCTTGTT TCTTG	17
	(2) INFORMATION FOR SEQ ID :197:	
	(i) SECTION CUADACTEDISTICS.	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 273 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	· • • • • • • • • • • • • • • • • • • •	

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :197:	
	ACTGGCAACT TCTATGTACC TGCAGAACCC AAATTGACAT TTGTCATCAG	50
	AATCAGAGGT ATCAATGAAA TGAGCCCAAA GGTTCGAAAG CTCGCAACTT	100
10	CTTCACCTTC ATCAAATCTT CAACGACCTT CGCAACTCAA CAAGCTTCTT	150
	ACAGTGAGGA TTGCAGAGCC TATATAGCTG ATACCCCAAT CTGAATCATA	200
15	AATGACTAAT CTACAAGCNT GTTATGCAAA ATAAATAAGA AACGACTTGC	250
	TTACAGATGC NTTTTAATTG TGG	273
20	(2) INFORMATION FOR SEQ ID :198:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs	•
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
		· .
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :198:	
30	GATTCCCCAA TAAGCAGACA CCTTGAACCA GCCTGGGGTG AGCGAAAGAT	50
	GNTATA	56
35	(2) INFORMATION FOR SEQ ID :199:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) TENORUL 122 hago pairs	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

(xi)	SEQUENCE .	DESCRIPTION:	SEQ	ID	:199:
------	------------	--------------	-----	----	-------

	GGACGCTGNN NNNNNATCC TGCAATGCAC AGCACAGACC CCACCACAGG	50
. 5		
٠	GGTTTTATCC AGCCCAAATG TCAACAGTGT CAAGTTTAAG CAACTCTTAC	100
	CGAGTGGGAC TCAATTCCCN AGTTGTATGG AA	132
10	(2) INFORMATION FOR SEQ ID :200:	•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 284 base pairs	
•	(B) TYPE: nucleic acid	
1 5	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :200:	
	AAACTTTTTN GCACTTACAC AGACGAGACT TCACTGCNTG AGGATCATAC	50
25	GACATTTCAA TCGNACACAA ANTTAAAAAA TAAAACAAAT TTTAAAAAAC	100
	CATNTTGAAT TTCCTTAAAA TTATTCCAAT ACTTTCCAAC TTAAAATTCA	150
•	GAACAAATCC TCCTAGAGAC TATCAATACC AATATCTTCA CATTGCTCAG	200
30	CTGNTACATA CGNCCCACCA GTTCACAACT AATGACACAA CACTACATGN	250
	TCAAATCTTA TCTNNNATAG CACAGTAACA AAGT	284
35	(2) INFORMATION FOR SEQ ID :201:	
	(i) SEQUENCE CHARACTERISTICS:	-
	(A) LENGTH: 106 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	

• •	(xi) SEQUENCE DESCRIPTION: SEQ ID :201:	•
	CCTGACACCA ATTTCGCCCA CATGTATGCG GGAAGAGGCC TGAGACTAGA	50
5	AGTCGTTGCC CTGTCCATCT CCCGGCCACA GGCTTCATTC CCAGATTTNT	100
	CTTGNT	106
10	(2) INFORMATION FOR SEQ ID :202:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 270 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	:
15	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :202:	
	CTTTGGAAAA CAAACATTTN TTATTACTGA AATAGCAAAA ATCATTCTAC	50
	ACTCCTCCTA AGCATGTTCA ATTAGCATAC ATTCCAACAA TGCATGAAAA	100
25	AATTNCTAGC CAGAGGCATT TAAGTGATTT CTTCCTAAGT GTTTGCTAAT	150
	TCAATGCCAA GAACTATGAT GTTTATCNTT CTGATGGACA AATCAAGAAA	200
30	CAAAACAGAT ATAATACCAA GGGTAAAGCT GATATGACCC ACAACATTGT	250
	CATTACTCTA ACTGTTAATC	270
	(2) INFORMATION FOR SEQ ID :203:	• . :
35	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 173 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	

	AACTAAGGCA CATTGCCCTT TTTGACCTTT CTNNNGNACT ATTGAAATCA	50
5	AGCTTATTGA TTAGGTGATA TTTTTATAAC AATTGAAAGG GCAATATCAA	100
	ATAATGACAT ATGAGAATTT TTTATTACAT ATTAAAACTG ATTTTTACTT	150
	TACAAAANNG NAATTTGCAA TTA	173
10	(2) INFORMATION FOR SEQ ID :204:	
•	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 164 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	,
	(D) TOPOLOGY: linear	
20		
-	(xi) SEQUENCE DESCRIPTION: SEQ ID :204:	
	CTGCTTCACC ATCCTGGCGT CTACCAGCCT GGTGNGGCTG GGTACTGTGN	50
25	ATCGTCTTCC TCAACAAATG CGAGACCTGC CAACCTGCAC TACACCACAT	100
	CCGCNCAAGA AGAAGAACCT GCTGCTTCAT ACAACACGGG GAGGCCCTGT	150
30	CATTAACATT ANTT	164
	(2) INFORMATION FOR SEQ ID :205:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 99 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :205:

•	GACCGCCCAN NNNCATCCAA AACTTCTAGG CACAATCTAT ACTGCTGCTG	50
	AAGAAATTGA AGCAGTTGGG GGAAAGGCCT TGCCATTGAN TTTTGATNT	99
5	(2) INFORMATION FOR SEQ ID :206:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 118 base pairs	•
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
		:
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :206:	•
·	GTACCTTGGG NNNNNANNG GGAATGAGGT TCTACCACTC TGGAAAATTC	50
	ATGCCTGTCA NTNTAANTNC AGGTGCCAGT TNNCNNTAGG TCGCCAAAGT	100
20	TGGGGTTAGN TGTTCNAA	116
	(2) INFORMATION FOR SEQ ID :207:	
25	(i) SEQUENCE CHARACTERISTICS:	*
	(A) LENGTH: 170 base pairs	
	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :207:	
35	CACACTANCG ACCAACACTT AAAAGNCTNC TCACACAAGN ATCTTTTTAA	. 50
	TAAAAATACC TCTTTCNTAA CTCCACTTTA ACTCCCTAAA ACCCATGTCG	100
	AAGCCCCCAT CCTGGTCAAT AGTACTTGCC CAGTACTTTT AAAACTAGGC	150
40	GCTATGCATA ATACCCTCAC	170

			• ,	
	•	(2) INFORMATION FOR SEQ ID :208:		
			•	
		(i) SEQUENCE CHARACTERISTICS:		
		(A) LENGTH: 129 base pairs	· ·	
5		(B) TYPE: nucleic acid		
		(C) STRANDEDNESS: double	4	
	•	(D) TOPOLOGY: linear		
٠				·
10				
		(xi) SEQUENCE DESCRIPTION: SEQ ID :	208:	
		TTCAATGAAA TGCTTGTATA CAATGATATA ACAAAGA	AAC CCTAAGACAA	5
- 				
15		CGAGAACTTC AACTAAGTGC ACTCATGCAG AATCTCT	GCG GGGAGAATTT	10
		TTTCTCGGGG AAGTAACCCT GCCTTTGAA		12
		TITCTCGGGG ANGTANCCCT GCCTTTGAN		12
		(2) INFORMATION FOR SEQ ID :209:		
20		(2) INFORMATION FOR SEQ ID :209:		
20				
		(i) SEQUENCE CHARACTERISTICS:		
		(A) LENGTH: 190 base pairs		
	•	(B) TYPE: nucleic acid		
		(C) STRANDEDNESS: double		
25		(D) TOPOLOGY: linear		
			•	
	•	(xi) SEQUENCE DESCRIPTION: SEQ ID :	209:	
30				
		CTTGGCGTCA TTTTCTGTAC TTCTGACAGT GCCCTCA	GAG TCTGCAGGTG	5
		GATCCTTTTT TGCATGGCAT TAATTATATG AGCAGCC	TCC TTCTGACAAT	10
			•	
35		CCAAATTTTG GCTCCAGAGT CATTTCTGAA NNTCTAC	ACT TANGGNCTTN	15
-				
		AGCNTGCTCA TTCAAGGTNA AGGGGAGTTT TNAAAAA	ጉ ልጥ	19
		The second secon	· ,	
	_	(2) INFORMATION FOR SEQ ID :210:		
40		(-,	•	
- - ,		(i) SEQUENCE CHARACTERISTICS:		
		(T) phich churucituditatios:		

(A) LENGTH: 129 base pairs

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :210:	
		•
	TCATTGAGTC ATCCTTTTTG CCTGCTGCTG TAAGGTTTTT TTTCTTCTAG	50
10		
•	TAACTGTATG ATCCAGAGCG ACCCAGCAAG GACTCAATCG ATCACCAACT	100
	GATGCAGAAC TGTTTCATAT CTAGAAATG	. 129
	GAIGCAGAAC IGIIICAIAI CIAGAAAIG	12.
15	(2) INFORMATION FOR SEQ ID :211:	
	(4) 2	•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 152 base pairs	
•	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(CONTRACT PROGRESSION CRO. TO	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :211:	
	CTGTAAGGTT TTCTTTCTTC TAAGTAACTG TATGATCCAG AGCGACCCAG	5(
-		
	CAAGGAATCA TATCGATCAC CAGCTGATGT AGAACTGGTT TCANATCTAG	100
30		
	AAATGGAANC NNNGNGTTTN TTCCTTAATG GACCCCCCCN GGGGCNGAAT	150
	GG	15
35	(2) INFORMATION FOR SEQ ID :212:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 186 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	•
70	(D) TOPOLOGY: linear	
	(D) 1010H001. IIIGHI	

(xi)	SEQUENCE	DESCRIPTION:	SEQ	ID	:212:
------	----------	--------------	-----	----	-------

	CTTAACCCTT TGGAAGGNTT GACTGTGTGA CCCGCAGCAA ATAATTCATG	50
	TCGAAAGATG AAAACAACTA AGTTCATAAC CCCCTGCCCG CCATTGACCT	100
	CCCTTTNAAA ANCGAGACCA AGACTCCATC ACTGGTTTCG AATTTACATC	150
10	NAACTGCTAA GATTGATACA TTNCAAGTCT GCAAAT	186
·	(2) INFORMATION FOR SEQ ID :213:	•
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 152 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :213:	
25	CTTAAATGCC TGTTGTGATA TCTTCTTTAA ACCTGGAGAG ATTGAATCAA	50
23	CCTTTCTCTA AAATTCCTTT CCTTTGCCTC CTCCTCTAAC TTTTCCTCCT	100
•	TTCNCGCTTT TCCTCAGGCT TTGNTTTTCC TCATGCTTTG CTTCACTCTA	150
30	TT	152
	(2) INFORMATION FOR SEQ ID :214:	
	(i) SPONENCE CUMPACEPRICATES.	

40

35

(xi) SEQUENCE DESCRIPTION: SEQ ID :214:

(A) LENGTH: 290 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

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	TCTTCAGGAG AAGGGGCACC ACTGCTTTAA AAAACAATAC TCCNTTATAG	50
	ACTTGAACAT TTGCAGACAT TATGATCTTG CTTCCAACTC CCACCGTATG	100
5	TCCAGCAAAC TCTCGCATGT GGCCACTAGG AGGAATGCGC AAGAATGTTC	150
	ATATTACATA TTTATAACAT TAATAACTGG AAAAAGTGAA ATGCATGTCT	200
••	GTTACAGGAA AATAGGCGAA TAATCAGATA TATATATCTA NNNCCGGGAT	250
10	ATTATTCAAT AGTGGAAATG ATGACTACAG CTATACCTCA	290
	(2) INFORMATION FOR SEQ ID :215:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 273 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :215:	
25	GTTTCTTCCA GTACATCCAA GTTTAAAATT ATTAGCGAAA TGGTCCATGT	50
· ·	TTTTTCAATT ACTGCTGACA CGATTCTAAG CTAAGTGAAG GGGAAGATCT	100
30	GAGAGCATGC TGTTTGGACT GTTGATGCAT ATTCATGATG TAACAGGTCC	150
	TGGGCCTCAC TTTACCCCAT TCGTAAAATG GGGATAATGT CACCTGCCTC	200
	TTACCTACCT CAGAGGGATT TGCGAAGCAA ACTGTTAATC TTCGAAAACG	250
35	ACCATTTACT TTTAGGATAT CAA	273
	(2) INFORMATION FOR SEQ ID :216:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 118 base pairs	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

123

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :216:	
	ATCTACGGCT AGGGAGAAAC AATGTTCCTA CATATTATGG GTAGTGAGAA	50
10	CATTATCTGT ATAACAGGGA ACTGTGATTA TTTAAAATTA TGCAGAACTT	100
10	ATTTCATCTG TGCTTTAG	118
	(2) INFORMATION FOR SEQ ID :217:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 197 base pairs	
	(B) TYPE: nucleic acid	
-	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(b) TOPOLOGI: Tinear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :217:	
25	GAGGCTGGTG GCGAGGGAGT TGTGGAGGAT AACAAGAAGA AAACAAGTCT	50
	ATCACTAATG ACTTATTTTA CTTAGTTTCC ATTCACGAAA CCCTTTTAAA	100
	TACAAGGCAA CATTTTCACA GCTGAAAAAT TACAACTAAA NGNNNTGATT	150
30	TACCACCAAA AGCAATAGAT GTAGTTATGT ATAATCTATA GATAATA	197
	(2) INFORMATION FOR SEQ ID :218:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 177 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

••	(X1) SEQUENCE DESCRIPTION: SEQ ID .210.	
	CTCGCGAGCA CTCGTCCGAG AGGTCCCATA CNNNNNNCC CAAGCCCCTC	- 50
5	AAGGGCCTTT GCCAATCTNG TCATTTTATG CCAAGTCCTC TAAAACGCAC	100
	TCAGGGGTAT CTACATCGCA CTTGTACAGA ATATCAAGAT CTTATCCTCC	150
	TATTTTAGGC TNCNAGGTCA AAATAAA	177
10	(2) INFORMATION FOR SEQ ID :219:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 118 base pairs	1
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
• *	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :219:	•
	GAAATGAAAA AGAGAGCATT ATTGGAAGAA TGAAAAATAC ATCTCAGAAA	50
25	GAAACCTANT AGTTCAACAA ATTAAAAGAA AGAAAGAAAA AAAGCAAAAG	100
	TNGGTNTCAG GGCTGGAC	118
	(2) INFORMATION FOR SEQ ID :220:	÷
30		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 233 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :220:	
40		
	CACACCCCAC CACCACATICO CONCATOR CTCTACTCAA CACCACTTTT	E

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	ATGGACTACA CTGTCTTTTC CTTTGAATCC CCACTTCTCC TGGAACTGTA	100
	CTTGGACCAC CAGGAACATC GTAAGACACA ACCCAATACA CTCACCGCAT	150
5	TCAGACAACT GTCCAGACAC TGCCCTGACA CCACAGGGNC CCCTTTACAN	200
	NGGTTGGNGG AAATATNNTT TAATCTCAGG CCA	233
	(2) INFORMATION FOR SEQ ID :221:	•
10		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 235 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
,	(2) 10102011 111021	
		÷
	(xi) SEQUENCE DESCRIPTION: SEQ ID :221:	•
20	(XI) SEQUENCE DESCRIPTION: SEQ ID :221:	
20	GCACACAGAT ACCATCCCAC CTTGCTTTNT GACAGGCCAG CCACACAATA	50
	ACCCTTTCCC TACTCACTAA AGCATCCCTA GGACACCAAC AATGAGGACA	100
25	GGCAGACTTA CCCCCGCCAT CTAGAGAGAA TGTCGTTATT ACCCATAAAA	150
	CTCGACCACC CCCATATNCA CTNTTGGGTA AAAACAAACG CTTAAACCTG	200
30	TGAGCCTGCC ATTCCTTTTT ACGTGTTAAT CAATT	235
	(2) INFORMATION FOR SEQ ID :222:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 101 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :222:

••	GCCAATNNNN NGGCGCGAGG GNNAGAGAGA ATGGCAAACA GGGACCCGGG	50
	CCTTAGGAAT TGANTGAGGA CTTAAATTTC CCCNGAGGGA GAGNAGTGGA	100
5	G	101
	(2) INFORMATION FOR SEQ ID :223:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 271 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	•
		÷
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :223:	
20	ACGGTGACTT TCCATCCCTT GAACCAAGGC ATGTTAGCCT TGGCTCCAGC	50
20	ATGTCGTCAC CATTCCAACC AGAAATTGNC ACAAATGCTA CTGGTCGGGT	100
	TGACCAATTT TCTTAATGAA GTGCTGACTT CCTTAACAAT TTNTTATATT	150
25	TNTTCGACTG TAGGGCGCTC ATGAATCCAT TTCGTTAACA CCGACAATTA	200
٠.	ATTGTTTCAC ACCCAGTGTG CAAGCCAGAA GGGCATGCTC TGGGTCTNCC	250
. 20	CATTCTTGAG ATACCAGCTT C	271
30	(2) INFORMATION FOR SEQ ID :224:	•
	(i) SEQUENCE CHARACTERISTICS:	٠
	(A) LENGTH: 101 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :224:

	• •	AGTATTATTT ACTNGGTCAT CTGGGAACCT TAATGTGATT TATTTTGACA	5
	• •	ATTACTGTGG CACATGTTTA ATCTGCAGCT CCTGGCGACT ACTGTGCTTA	10
. 5		T	10
		(2) INFORMATION FOR SEQ ID :225:	
		(i) SEQUENCE CHARACTERISTICS:	
10		(A) LENGTH: 141 base pairs	٠.
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
	,	(D) TOPOLOGY: linear	
		(5) 101020011 11.1022	
15			
15			
		(xi) SEQUENCE DESCRIPTION: SEQ ID :225:	
		(XI) DBQDBGCB BBBGKII IION. BBQ IB .223.	
		TTCATTCCCT CCAGTGCNCG NNCATGCGAC ATATACAGGN NNTGTACCGT	. 5
20		TICATICCCI CCAGIGCNCG MNCAIGCGAC AIRTACAGGN MNIGIACCGI	٠,
20		AGGCGCTANT GTGTGGTACT CTGCCACGNN ANACCNCNNC TCGTCTTGAA	10
÷		AGGGGTANT GTGTGGTACT CTGCCAGGNA ANACCHONNO TGGTGTTGAA	10
		GACCCTGTTA ANTTTGGTGA AAATAACTTT CCANATTTCA A	14
25		(2) INFORMATION FOR SEQ ID :226:	
		(i) SEQUENCE CHARACTERISTICS:	
.*		(A) LENGTH: 218 base pairs	
		(B) TYPE: nucleic acid	
30		(C) STRANDEDNESS: double	
30		(D) TOPOLOGY: linear	
,		(b) Torobodi: Timear	
25		(a) A CROUDNOR DECORTRATON, CRO. ID . 226.	
35		(xi) SEQUENCE DESCRIPTION: SEQ ID :226:	
		ATTTTCTTAT ACTCCTCCCA CAGATGAGTT CACAAATACA AAAANTGGTG	5
		TACATTTATA CTCAAGNACA AATCTCCAAC AGCCAAGTAA TTATAGTTTG	10
40			4.5
		TTCTGTTATG TGCAAAGTAG ATTATTTCAT ATTTACTTGG TATGGAAAGC	15

••	AGAGTACAGG CTCAATGGAC AATAATCATT AAACACACAT TATNTTTAAG	- 200
	AAAANGCTGT TNNAAAAA	218
5	(2) INFORMATION FOR SEQ ID :227:	
	(i) SEQUENCE CHARACTERISTICS:	*
	(A) LENGTH: 209 base pairs	•
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15 .	(xi) SEQUENCE DESCRIPTION: SEQ ID :227:	÷
	GAAAACTTTA TTTGTCCACA CCAGGATTAC CGAACAGAAN NACNNGGTGG	50
20	TGAGAAGTTG GTATTNATAG CACCTTATTT ACATGATGGA CTTGAGGAGG	100
20	CAGTTAATCC TATGGTTGTG TATCACAACC TTTTATTAGC AATGCCATCT	150
	TCGTCTTGCC TCCNCCCTAC TTGAATATCC CTTACGGTCA ACANCCCNCG	200
25	GGGTTGGGC	209
	(2) INFORMATION FOR SEQ ID :228:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 179 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :228:	
40	TTTNNCAANC CAAATGGTTA TTTATTCTAA AACTGGAAGC TACTTTGCCT	50
40	ANCATTTCG CCAGAATGGT GTAATGNNNA CAGGGGAGGA AAAAAGTTAC	100

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	AGATGTAAAC AATGACACAG TTACATTTTT TTTTTAAATG GTAAAACCCC	15
	TTTTTACTGG NCNTTCCAGA ANCTTACAG	179
5	(2) INFORMATION FOR SEQ ID :229:	•
	(i) SEQUENCE CHARACTERISTICS:	ě
	(A) LENGTH: 184 base pairs	•
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :229:	
	AGTTTAATCT CANNNNNNA TGTCACAAGT TATTGTAGCA GTGAAACAAT	50
	GAGGGCATAC ACTATATNGA AAAAAAAACC TCCTCCCTNA TTCTCACGCC	100
20	AACCACAGGC TTCTGCCCTG CAAAGATCAC CAATGTCAAT AGTTTGGTAA	150
•	TACACCATCA TAAAGGNTCC TAAATTCATC TCTA	184
25	(2) INFORMATION FOR SEQ ID :230:	
•	(i) SEQUENCE CHARACTERISTICS:	
.*	(A) LENGTH: 140 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :230:	•
	GAGACAGATG TANNNAAAGT TCAGAATACA ACAGTTAAGA CTCAGTTTTC	50
40	TTTTTAGGTT TAGAATTTGA GAGCAAGTAT TGNTATGGTG AGCTGTTTTA	100
	GTGCAAACAT TGTTGAGTAT GTTGTCAAAC GTCTAAAAAA	140

130

(2) INFORMATION FOR SEQ ID :231:

GCAACCANGG

	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 178 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	,
		٠
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :231:	
	CGGAGACTTG TCCAGAGAGT TGTCTCTTNT NNGTTGGGGG CCGTCCCGCT	50
15	CCTAAGGCAG GAAGATGGTG GCNNNTNNNG ACGAAAAAGT CGCTGGNGNN	100
		•
	NATNAANTNT AGGCTCNAAN TNNTTATGAA AANTGGGAAG TAANTNNTCG	150
	GGGGTAAAAG NAANATNNGA ANATGGAT	178
20		•
	(2) INFORMATION FOR SEQ ID :232:	
	(i) SEQUENCE CHARACTERISTICS:	,
	(A) LENGTH: 210 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :232:	
	GAGCCAACGC CACNNNNAG NTGAACCACA CTCACGAAAA AAACNCNTAC	50
35	CGTCGTCNTA ATACNNANTC TTCCCATACA AAAATCGTCC NTNTAAATNT	100
	NNTAAACCAA TTCACAGCCC ACAGAACNAA TCAGTAATTT TATANCTTCN	150
	NCGAAACCAC ACTTATCCCC ACCTTGGTCT ATTCATNACC CGGATNGAGG	200
40		,

(2) INFORMATION FOR SEQ ID :233:

•	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 247 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
		• ,
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :233:	
	ACTGTGCGAG TAGCTTNAAA ANNNNNNNN NNACTCAGTT TNATTTATAC	50
15	AAAAAGAAAG GGGTGTGNAG TCCATGGTGT TGTACAGTNT NTAATTAGNC	100
	CANNACGAGA AAANANATNN NNNTNNNAAA NNNTGAATTA TGGGGTNAGG	150
20	ACTITCTINAC INTICAAACNA INTATTINCACG TAAAAAACAT CACAGTGCGA	200
20	AGAAAGNNAN CNCANNTAGA GCANGAAGAC ATCAAAAGCC AGCCGGG	247
	(2) INFORMATION FOR SEQ ID :234:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 169 base pairs	•
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :234:	
35	AAACACCAAA NAAANNNNC NAGCAANAAA GTGGAAGACT AACCAAGATT	50
	GTGGACATTG GAATGTTTAC TGTTATTCTG TGTAAGAAAA CAACTNACAA	100
	AAAAGAAAAA TGGNCAACAA AATTGTTTCC CGGCNAGGCT GNAGGAAACC	150
40		•
	NGGGGGAAAN TGCCNGGGC	169

	(2) 1110.4111201 101. 552 15 1551	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 51 base pairs	
5	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	,
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :235:	
	GCANCACANA AAGGAGACGN NANAGCAACG CAGAGATAGC CATCCAGATA	50
15 .	G	, 51
	(2) INFORMATION FOR SEQ ID :236:	
	(2) INFORMATION FOR SEQ ID .230.	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 101 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :236:	
	CARCHOMANA MOOMMOOARD MOMOMARCAMO OCCCANMONA CHICHOMOARD	
30	CAAGTGTAAA TGCTTGCACC TCTCTNCCTC CCCGANTGAA CTCTCTGATC	50
30	TCAAACTTTT TTAGGAAAGC CAGATTAAAA GCAGACGTAC CTAAATNCAA	100
•	TORRIGHT TITOGRAPHO CROSTINER GORGAGOTEC CIRRITOR	100
	A	101
35	(2) INFORMATION FOR SEQ ID :237:	
	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 156 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID :237:

• _	CATTATAAAA CAGCCTAACT TCCCTTATGC CATATGATTG CCTTAAAAAG	50
5	ACCAGATCTC AAGGAAAAGA TCATCAAAGA GCAGAGATCT TGAAGCGGCA	100
	CAGTTTTCCA GCAGTTTTCG TATTTNTTTT TATTTACGAA TGCCATACTC	150
10	TGTTTT	156
	(2) INFORMATION FOR SEQ ID :238:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 148 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(b) Torobodi. Timear	
20		
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :238:	
	(XI) SEQUENCE DESCRIPTION: SEQ ID :230:	•
	GCAGNCTAAT TGTGAATCTA AGAAACTACT CATAGACATC CCACCCTAAT	50
25	GCHGNCIAMI IGIGANICIA AGAAACIACI CAIAGACAIC CCACCCIAMI	
25	GATTTTACCT NNAACNTTTG TCCTTCATCA TAGAACCCTA GCAACATCCA	100
	GATITIACCI NNAACNITIG ICCITCATCA IAGAACCCIA GCAACATCCA	100
	CCTCCTGTAG CACGAAACGA ATCAAACAAC CCCCTGGATA ACCTCTCA	148
30	(2) INFORMATION FOR SEQ ID :239:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 258 base pairs	•
	(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :239:	
	GAGTTTTAAC TTAATCACCT CTTTAAAAGA CCTGTCTCCA AATACAGTTA	50

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•	ANTITIGAGGI ATTGAGGGII AGGACIICAA CATGIGAGTI TGGGAAGGGA	100
	AGCACAAAAT CAGCCCCTAC CATGGTATAT TTATCATTGA TACATTACTA	150
5	TCAACTAAGC TCAAGATTTT ATTCAGATTT GACTAGTTTT TCCACTAAGG	200
	CCCTTTTCT TTTCTAGGNT CCCACAGAGG ATACATTACA TTTACTTACA	250
	TCTTCTCT	258
10	(2) INFORMATION FOR SEQ ID :240:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 377 base pairs	•
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :240:	
	·	
	GAGCATTATT TGATGCAGAA GTTGAAAAAC AATAGACTCA AGAAAGAAAA	50
25	CAAACCAGTG ATTCCCCTTC CTCAGATACT GGGACTAACA GCTTCACCTG	100
	GTGTTGGAGG GGCCACGGAG CAAGCCAAAG CTGAAGAACA CATTTTAAAA	150
	CTATGTGCCA ATCTTGATGC ATTTACTATT AAAACTGTTA AAGAAAACCT	200
30		
	TGATCAACTG AAAAACCAAA TACAGGAGCC ATGCAAGAAG TTTGCCATTG	250
	CAGNTGCAAC CAGNGGAGNT CCTTTNAAGN GNAACTTCTN GNATAATNNC	300
35	AAGGGTNAAC NTNTTTNNAA ANNNGCCNAA NCNNGATTTT GNACNCCCTT	350
	TNNCATTGGC ATTNANTGAA AAAAGTT	377
	(2) INFORMATION FOR SEQ ID :241:	
40		

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 114 base pairs

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(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
		*
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :241:	•
. •		
	GGNGCACTGN TCCGAGAGCT TTTTTTNCTG AAGAATAGCA TCTTTAATGA	- 50
10		•
	GTGTNCTAAT CCTTGTCATC TGAAGTTTTG AAATATATTT CCCAGGGTCA	100
	GAACAATACA GAGA	114
1 E	(2) INFORMATON FOR CEO ID .242.	
15	(2) INFORMATION FOR SEQ ID :242:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 122 base pairs	
•	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
	(5)	4
•		•
•		
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :242:	•
	CTCAAAATNC TGTGACAAAT TTNNNNGGTC AAGTTGTTNN CCATTAAAAA	50
	GTACCTGATT TTCAAAAACC TAATAACCTT AAAACCNCCC CACGNAAAAA	100
30		
	AAAAAANCNA AAGNGGGCCC CC	122
•		·
	(2) INFORMATION FOR SEQ ID :243:	
3 E .		
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 171 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(5) 10:00001. IIIIedi	
	\cdot	

. ••	(xi) SEQUENCE DESCRIPTION: SEQ ID :243:	
	GAGAATGGGA AGCCTCATTT TGGGGACAAG AACCTGTACA AGGATTTGTG	50
5	ATGAACTTTT CCAATGGGGA AATTATAGAC ATCTTCAAGC CAGTGCGCAC	100
	NTATGATATG CCTCATGATA TTNTTGCATC TGAAGATGGG ACTNTGTACA	150
10	TTGGNGATGC TCATCCAAAC C	17:
10	(2) INFORMATION FOR SEQ ID :244:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 235 base pairs	
15 .	(B) TYPE: nucleic acid	
-	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
20		:
	(xi) SEQUENCE DESCRIPTION: SEQ ID :244:	
	AACTTTACTG TCAGATAATA AAATTAGGGC TTTCTCTTAA AGGGCTTCTT	50
25	TAAGAGAAAT ACAGAGTGTT TGGTATNTGA GAGAAAAAA GTTAAAACAG	100
	GACTTTCAAC TTAATCCAGA CTTCCTAACA GTGTTTACAT GTGAGGGAAA	15
30	CTCCTTTAAG TAATGCGTAG TGTTTTATTT TTACCATCAT TGGNGACAAA	20
	AAAAACAAAA ACATAAACAT CTNANGTGAA ATATA	23
35	(2) INFORMATION FOR SEQ ID :245:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 211 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ I	ID	:245:
----------------------------------	----	-------

GGCCTAGCCT GCCATACCCT TACGAGCAGG CTCAGTGATT AGACTTTGAG 50 TCTAAGTTAA AAACGCCCTG CCCCCTTCTC GCAGGCCACC TACACCGTNN 100 TTTTATCGAT TTGATAAAAC CACCAGCCTA CTCATCAAGN NGCACCCTGC 150 NTNTACNTCT AACCNTAACA TNACNGCGGC CACCTACTCA TGCCCTANTG 200 10 CAGCNCACCC T 211 (2) INFORMATION FOR SEQ ID :246: 15 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 194 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 20 (xi) SEQUENCE DESCRIPTION: SEQ ID :246: 25 GGCTGAGAAT CCTTGAGCTT ACCATTTGAT ATTTCTATAT TATTTAAGAA 50 AAGTCAAAAG ATTTTGAAAA CAGCAATAGA AGTAAGATCC TTTAAGCTCT 100 ATTTGCAGCC CCTAAGAAAA GTGATGAGGA CACTGTGCAT GCCCATATGT 150 30 GAACATGGTG GTACCTTAGG NATTTCCCTT TNTCNATGAA TATA 194 (2) INFORMATION FOR SEQ ID :247: 35 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 249 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

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•	(xi) SEQUENCE DESCRIPTION: SEQ ID :247:	. •
	GCCCCTCAA GGGCATCCTG GGCTACACTG AGCACCAGGT GGTCTCCTCT	50
5	GACTTCAACA GCGACACCCA CTCCTCCACC TGACGCTGGG GCTGGCATTG	100
	CCCTCAACGA CCACTTTGTC AAGCTCATTT CCTGGTATGA CAACGAATTT	150
10	GCTACAGCAA CAGGGTGTGG ACCTCATGGC CCACATGGCC TCCAAGGTAA	200
10	GCCCCTGGAC CACCAGCCCC AGCAAGGCAC AAGAGGAAGG AGAGACCCT	249
	(2) INFORMATION FOR SEQ ID :248:	:
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 248 base pairs	· ·
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
*	(D) TOPOLOGY: linear	
20		·
	(xi) SEQUENCE DESCRIPTION: SEQ ID :248:	
25	GCCCCTCAA GGGCATCCTG GGCTACACTG AGCACCAGGT GGTCTCCTCT	50
	GACTTCAACA GCGACACCCA CTCCTCCACC TGACGCTGGG GCTGGCATTG	100
30	CCCTCAACGA CCACTTTGTC AAGCTCATTT CCTGGTATGA CAACGAATTT	150
	GCTACAGCAA CAGGGTGTGG ACCTCATGGC CCACATGGCC TCCAAGGTAA	200
	GCCCTGGAC CACCAGCCCC AGCAAGGCAC AAGAGGAAGG AGAGACCC	248
35	(2) INFORMATION FOR SEQ ID :249:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 82 base pairs	
	(B) TYPE: nucleic acid	

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

	(xi) SEQUENCE DESCRIPTION: SEQ ID :249:	
e	GGAGGGGACC GCAGCATCCA GCCCTCTAAG GCCGGGCAGC GGTCGCGTTG	50
5	GGGCAGAGCG CAGCGCAAGC AGGCTCAGTG TA	82
•	(2) INFORMATION FOR SEQ ID :250:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 125 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :250:	
20	GGGGCCCTCA GGACATCCAC GTGAGCGTCT GCCCAGCTGC ACTGATATTG	50
	TNTTGCAAAT CCAGATTTGT TGNCATTACT GATGGGCGCG TGAAACCAGN	100
25	GAGAGATGCA CAAGATTTAC AGGCC	125
	(2) INFORMATION FOR SEQ ID :251:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 130 base pairs	
30	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :251:	
	GGCCCAGAGG TCCTTTACTC TTACGGNACA CCTTAGCCAC ATTCACAGGG	50
40	AATGNTCCAG CACTCAGGCT CCTTCCCATN GGTTTTCAAA AGCGCGTTTT	100
	TCTGGGGGAG CGGCCGCTT TAGTCGACCC	130

(2)	INFORMATION	FOR SEQ	ID	:252:
-----	-------------	---------	----	-------

	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 216 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :252:	
	GAGAAGGCTG GAGAAAAACC ATCCACACAT AAACAATNGN ATTTACTCNA	50
		:
15	AAATNAAGTA CAGGTTTCAG GTATTTAAAA TAAATAAAGA AAAATCTCGT	100
-		
	TTCCTTTGGC ATCTTTAGAA AATAAACTAA GCAATAAAAG AGGTGATTGT	150
•	ATAAAGACAT GCGTAAGCAA ACATATGGGG AAAACCAGCA ACTTGGTTTT	200
20		•
	ATGNGATAAT ATCAGC	216
		•
	(2) INFORMATION FOR SEQ ID :253:	
25	(i) SEQUENCE CHARACTERISTICS:	
-	(A) LENGTH: 249 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :253:	
35	GGAGAAGGAG GCTGATTGCG TACATCCAGC AGTTACAATT TTTAAAAAATT	50
	ACANTINUNC NITTIGATTI TTAATIITANG TAATITCCTT CCAAAGAAGN	100
	TTCACATGTA ATAAGTAGAA ATTCTGTATA GGAAAAAAGC ATTAAAAATA	150
40		
	TANATACNGC TTCATNCGTT GGGAACCATT AAAAGTAATA TAATNAGCTT	200

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	TTTTCAGAAG GATCTTTTGT AGCAGTGNTT ATGAATGNAC CCGCAAAAT	249
	(2) INFORMATION FOR SEQ ID :254:	
5	(i) SEQUENCE CHARACTERISTICS:	
_	(A) LENGTH: 166 base pairs	
	(B) TYPE: nucleic acid	•
*	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
10	(5) 101020011 11.1001	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :254:	
15	GACCCCATTC TATATTATNC GTNNNGCGAT TTTTTAGCCA CCCTGAAGTT	50
•	ATATTTNTAT ACCNAGGCTT CGAATAATCT CATCNGACTN ACCACCCTNG	100
	GAAAAAAGA ACCGTTTGAT ACATAGGNAT GNTNAGCTTG ATATCAATNG	150
20	GRANANANGA ACCUITTONT ACATAGGNAT GNINAGCITG ATATCAATNG	150
20	CTCCCTGGGN TTCTTG	166
	(2) INFORMATION FOR SEQ ID :255:	
25	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 223 base pairs	
	(B) TYPE: nucleic acid	•
•	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(0, 500000000 22.00000	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :255:	
35	CCAGACCAAC CGCCTGCAGG AGGCTCTGAA CCCTCTTCAA GAGCATCTGG	, 50
	AACAACAGAT GGCTGCGCAC CATCTCTGTG ATCCTGTTCC TCAACAAGCA	100
40	AGATTTGCTC GCTGAGAAAG TCCTTGTGGG AAATCGAAGT TGAGGACTAC	150
40	TTTCAGAATT TGCTCGCTAC ACTACTTTGA GGATGCTACT CCCGAGCCCC	200

	CTTCTNTTGT NACAGACAGC AGA	223
	(2) INFORMATION FOR SEQ ID :256:	
5	(i) SEQUENCE CHARACTERISTICS:	
_	(A) LENGTH: 292 base pairs	•
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
10	(5) 101020017 22	
e i e e e e e e e e e e e e e e e e e e	(xi) SEQUENCE DESCRIPTION: SEQ ID :256:	•
		:
15	GGAGAAGAAG GAGCAGGAGG TGATGCTACT GACTCAAGTC AAACAGCTCT	50
	TGATAATAAA GCTTCATTGC TCCATTCAAT GCCTACTCAC TCCTCTCCGC	100
	TCTCGAGACT ATAATCCATA TAACTATTAA GATAGCATCA GTCCCTTCAA	150
20	CAAGTCTGCC CTCAAGGAAG CCATGTTTGA TGATGATGCT GACCAGTTTC	200
	CTGACGATCT TTCCCTAGAT CATTCTGACC TGTTGTAGAG TTGTTGAAGG	250
25	AGCTGTCTGA CCATAATGAG CTGTAGAAGA AAGAAAAATT GC	292
	(2) INFORMATION FOR SEQ ID :257:	, .
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 238 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :257:	
	AAGGAGCAGG AGGTGATGCT ACTGACTCAA GTCAAACAGC TCTTGATAAT	50
40		
	AAAGCTTCAT TGCTCCATTC AATGCCTACT CACTCCTCTC CGCTCTCGAG	100

	ACTATAATCC ATATAACTAT TAAGATAGCA TCAGTCCCTT CAACAAGTCT	15
	GCCCTCAAGG AAGCCATGTT TGATGATGAT GCTGACCAGT TTCCTGACGA	20
5	TCTTTCCCTA GATCATTCTG ACCTGTTGTA GAGTTGTT	23
	(2) INFORMATION FOR SEQ ID :258:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 137 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :258:	
20	GGAGAGAAA GTTCCTGAGT GACAGAGAAA AAGAACAAAA AGCTGCAGAA	5(
20	GGCNTCAGCA GAGGCCACTG CTGGCCCTGA GGCTGCACCA AGTGACGAAG	100
	AACCGGCTCC AAGCATTCGT CACAGCACTA ATTTAAA	13
25	(2) INFORMATION FOR SEQ ID :259:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 241 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
•		
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :259:	
	GCGCGACTTT TAAGGGATTT GCNGTGATGC CTGTTGACCC AGTGCCTTCC	50
40	TAGCCGGGAA GGGGCTCGGC TGGAGTGNNA AGGCTCAGAA AAATTTCGCG	100
40	AAGAAAAAA CCTATGAGGT AATAATAGGA TTATTCCGTA TCGAAGGCCT	150

	TTTTGGACAG GTGGGTGCGG TGACCTTGGT ATGTATTTTT CGTGTTACAT	200
	CGCGCCATCA TTGGATATGT TAGTGTGTNG GTTAGTAGGT C	241
5.	(2) INFORMATION FOR SEQ ID :260:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 248 base pairs	•
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	and the second property of the second propert	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :260:	
	GCGGACTTTT AAGGGATTTG CNGTGATGCC TGTTGACCCA GTGCCTTCCT	50
20	AGCCGGGGAA GGGGCTCGGC TGGAGTGNNA AAGGCTCAGA AAAATTTGCG	100
20	AAGAAAAAA CCTATGAGGT AATAATAGGA TTATTCCGTA TCGAAGGCCT	150
	TTTTGGACAG GTGGGGCGGT GACCTTGGTA TGTATTTTTC GTGTTACATC	200
25	GCGCCATATT GGTATATGTT AGTGTGTTGG TTAGTAGGTC TCGTATGA	248
	(2) INFORMATION FOR SEQ ID :261:	
	(i) SEQUENCE CHARACTERISTICS:	÷
30	(A) LENGTH: 239 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :261:	
40	GGATCTTTCA GGTGATGAAA TAGTTCTGTA TCTTGATTTT GGCGAATCTA	50
70	CACANGTGAT GAAGTAACGT GATAAAATGA CATAGACCTG TATGCCTACT	100

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	ACAATACAGT ATCAAAACCA GGGATTGATT CCTGGTTCTT TTCCAAATCC	15
	ACTTCCCAAA CTTATGGTAA GGTAATATTA AAAAGGCACC AAAGAGCCCT	20
, 5	GATCCCTGGA TAAACAGGAT CATTTCAAAG NNGTTTATA	23
	(2) INFORMATION FOR SEQ ID :262:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 143 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :262:	
•	GCCGGGTGAT GGCCAGGAAG GTGCCCTCTG TTTTTTGTAA AACAGCCATT	50
20		
•	GGCCTTTGTC ATTGAGTCAC CACCTGCAGG GCTTGGGAGT GAGCGTTGGG	100
•	TAGGNTCAGG CCCCCAGAAC CGCCTGGGTA CTCACCGCTA GCA	143
25	(2) INFORMATION FOR SEQ ID :263:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 246 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :263:	
	GGCGCTCAGC CTCCCCAAGG ACAAGCTCCT CCCCCTGTAA TACCTCCTCC	50
	TAACAGCCGG ATATGGATGG CAAGTTACCA AACACAGTGA GCCGGGACTC	100
40	TAAAAAAA TAGCAATCCA GATAGGCTTC GATTTCCCGT GACACTCTCA	150

	AGACATGAAA GTAGACATCG AAAATGAAAA TANTTATNNA AATGAAATGT	200
	TTGGAACCTT TAGCACAGAT TTGTTTGGGA AGACACGGTC TTTTAG	240
5	(2) INFORMATION FOR SEQ ID :264:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 199 base pairs	•
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	-
	(D) TOPOLOGY: linear	•
		:
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :264:	
•		
	GGCTCCATTA AGGACCAAAT TNATGCTACC ACTAAACAAA AANNTATAGT	50
20	CTGTGTTAAA TCGTATGCTT TTTAAAGGTA TTTAAAGATT CAACTAGCTT	100
20	TARRONGER CAGOLOGICA CORROR ANDONOLOGICA AND ANOMOROUS	15
	TAAAGAGGCT GAGCAGCTCA GGAAGCCTGT AATGTGACAT AACTCTTTGG	150
	ACCTGATCTT GATGTTCTGC TGTTGTNAGT CTTGAAGAGC GTATNTGAT	199
25	(2) INFORMATION FOR SEQ ID :265:	
	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 245 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :265:	
		_
	GGTTTCAATC GTCCATCCAA GATACAAGAG AACGCATTGC CACTGATGCT	5
	TCCTCACCCC CCACACAACT TAATCCCCCA ATCTCACACACT CCCACACT	
40	TGCTGAGCCC CCACAGAACT TAATCGCCCA ATCTCAGTCT GGTACTGGTA	10
70	AAACAGCTGC CTTCGTGCTG GCCATGCTTA GCCAAGTAGA ACCTGCAAAC	15
	TARADETOS GITOTIOS GENERALOS RECIDENANC	19

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	AATATCCCGT GTCTTCTCTN TCCCAACGTA TGAGCTGCCC TCCAAACAGG	200
	AAAAGTGATT GAACAAATGG CAAATNTTAC CCTGAACTGA AGCTG	245
. 5	(2) INFORMATION FOR SEQ ID :266:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 121 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :266:	
	AGGAAAAGAT GGGAATATGT TTCTTTCCTT TGAGAATTCA CAAAANGGGG	50
20	TCAAAAACAA AGCAATGCTG AAAGCGAACA TCCATTTNGC CTGCAATTCA	100
	AGGCGAAAAT CCAAAGGCAT C	121
	(2) INFORMATION FOR SEQ ID :267:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 169 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
30		
Ť	(xi) SEQUENCE DESCRIPTION: SEQ ID :267:	
35	GGGTCGCTCT CCCCCCCTCT TTCTTCGGGT TGTGTGCGTC TCCGCTTTCG	5,C
	TGATGTGAGG AACTCTGGGG TGGGCGACGG GTCCAACTCG CGTTGTCATC	100
40	TCCCAGGTTG GTACACCCC CCCCGTTTC CCCAGCCACA CTCCACGGCC	150
	AGGGTGGAGG CAGATGTCT	

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(2)	INFORMATION	FOR	SEQ	ID	:268:

(2) INFORMATION FOR SEQ ID :270:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 200 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 10 (xi) SEQUENCE DESCRIPTION: SEQ ID :268: TCGCAGGAGA GGAATTACAT GCTCATCCTA GAAGGGGGGG CTGACTGCAG 50 100 GTGTTGCTGG GAAGCCTCTC CAGGCCTGGA GCTGGAGTAC CCGTCCTCAG 15 CACTGCCAGC AGAAAAAGTT GTGATTCAAG GAAAGCACAT TGAATGCATT 150 ATAGCAATCC CAGACCTAAG TTCGAAGTTG CTTTGTAACA AGTGCTGCCT 200 20 (2) INFORMATION FOR SEQ ID :269: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 163 base pairs (B) TYPE: nucleic acid 25 (C) STRANDEDNESS: double (D) TOPOLOGY: linear 30 (xi) SEQUENCE DESCRIPTION: SEQ ID :269: AGGGGGGCC AAGAGAGAAG AACTTCACAC TTCTTTATTG CTCAGCCTAG 50 100 35 ATAGCAGCAG CTGGGAATAC GTAGGACAAA CAGGACGTCG AACAAATTAC 150 CACTAAGTGT AGT 163

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 115 base pairs(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
· 5	(D) TOPOLOGY: linear	
		•
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :270:	
10		
	TCACACTTCT TATTGCTCAG CCTAGATAGC AGCAGCTGGG GAATACGTAG	5
	GACAAACAGG ACGTCGAACA AATTACTCCA CTATATTAAA TTCACTCACA	10
15	CCACTTATTC TTTCT	
	CCRCTATIC TITCI	11
	(2) INFORMATION FOR SEQ ID :271:	
	(2) INFORMATION FOR BEQ ID .2/1.	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 178 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :271:	
	CCCGAGACCT GCGANAATGG TGCTGTGACG ACGAATAGCC ACGCATTATA	5
30		
	GGGTNTTNTG TTATGGGGGA CACTCTACTA CGGGATGCGT ATGATGNGGN	10
	NOON MEN THAN AN AMARCAGO TO THE COLOR OF TH	
	NCCATTATNG NAGTGGGCAT TGGGGGGGAAA CAGAGCACCT GATGCTTTAC	15
35	TGCAGAAATN CCTATGTGAC TCTTATAA	17
	TOOLOGIALITY OUTSITED TOTALINA	
•	(2) INFORMATION FOR SEQ ID :272:	
-	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 178 base pairs	
	(B) TYPE: nucleic acid	
	(C) STPANDEDNESS, double	

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :272:	
	CCCGAGACCT GCGANAATGG TGCTGTGACG ACGAATAGCC ACGCATTATA	50
	GGGTNTTNTG TTATGGGGGA CACTCTACTA CGGGATGCGT ATGATGNGGN	100
10	NCCATTATNG NAGTGGGCAT TGGGGGGAAA CAGAGCACCT GATGCTTTAC	150
	TGCAGAAATN CCTATGTGAC TCTTATAA	178
15	(2) INFORMATION FOR SEQ ID :273:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 135 base pairs	
20 .	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
		•
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :273:	
	CTCTAGTAAA AATGTTTGAG GAAACAAAAA TGGGGAAGAA GATCAGAACA	50
30	AAAANATTGT TAACACTGAC CGTCCTCATG CAGGTAGGCT ACTACCAACG	100
30	CTGGTTGTTA CTCCAGGAAA ATCGAGGTGA ACATC	135
	(2) INFORMATION FOR SEQ ID :274:	
35	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 231 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
70	· · · · · · · · · · · · · · · · · · ·	

	1 = 1	SECUENCE	DESCRIPTION:	SEO	TD	. 274 .
- 1	XI	SEQUENCE	DESCRIPTION:	SEQ	עג	: 4/4:

	TGTCGAGGAG AAGAAACCAC TTGATAACAC CCCGCGACAT CGTGGGGCTG	50
5	CTTGTCACAN GAAAGCACCA TGTTCGCAAT GGATTGCTGC AGGTGCTGCC	100
	GTTGCCTCCT CAGGGTCTGC TGAAAGTCAT CTTCTAGGGT CTGAACGACA	150
10	TAACGCAGGA AAAGGACTCG CCCAGGCAGA GTTTGTCCCT CTTCCTTCAT	200
•	GACATAGGTG AGCAGTTTCC AGTCCCACTC C	231
	(2) INFORMATION FOR SEQ ID :275:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 170 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :275:	
25	TCGCAGGAGA AGAAACCING TTGCTCCACA ATGCAACCAC ACTGATTTTC	50
	TCTTTCTCT NNAGTTNTCC TTGTCTGTAA CAGGAATGTC CCTTACTATA	100
30	GCAGGCGGAC ACGGCCATGG GTCAAGCACC CTGCTTCTGG AACTTGNNNG	150
	NCGTNCCCAC CATTGATTGA	170
	(2) INFORMATION FOR SEQ ID :276:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 315 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	• • • • • • • • • • • • • • • • • • • •	

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(xi)	SEQUENCE	DESCRIPTION:	SEQ	ID	:276:
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	(xi) SEQUENCE DESCRIPTION: SEQ ID :276:	
	ATATGAAGGA GGAAATGGCT CTCACCTTCG TGAATACCAA GACCTGCTCA	50
. 5	ATGTTAAGAT GGCCCTTGAC ATGAGATTGC CACCTACAGG AAGCTGCTGG	100
	AAGGCGAGGA GAGCAGGATT TCTCTGCCTC TTCCAAACTT TTNTCTGAAC	150
	CTGAGGGAAA CTAATCTGGA TTCACTCCCT CTGGTTGATA CCCACTCAAA	200
10	AAGGACACTT CTGATTAAGA CGGTTGAAAC TAGAGATGGA CAGGTTATCA	250
	ACGAAACTTC TCAGCATTAC GATGACCTTG AATGAAAATN GTACACACTT	300
15	AGCGTAGCAT ATTNA	315
	(2) INFORMATION FOR SEQ ID :277:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 209 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :277:	
30	ACGTTCTGCG CCTTCCTAGG AGAGTCTTAC AGTGTTGAGA TTTCACAAGC	-50
30		100

30	ACGTTCTGCG	CCTTCCTAGG	AGAGTCTTAC	AGTGTTGAGA	TTTCACAAGC	- 50
	AATGCGAGTG	TAAAATACCA	GCTCTACAAG	AAGCTAGGCT	CTGTGACGGC	100
	ATAGTTTTCA	GTAGCTTTAT	CACAATGAAA	CGAGAATTAT	ATGACATGGT	150
35	AGCAGAAATA	GGCCCTTTCG	TGNGCTGTTC	TATTTNCTCG	GATNGTAGAT	200
	АТАСТААТС	•			•	209

(2) INFORMATION FOR SEQ ID :278:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 107 base pairs

(B)	TYPE;	nucleic	acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :278:	
10	AAGACATCCT AAGCTATGTT GAGGAGGGAG AAGATCTGAG ACTCAAGTTC	50
	TGCTGTTAAC CATGAGGTGA TTTAGTAGCT AAGTACGCCT TAGCCTTTTA	100
	GAGTCTT	107
15	(2) INFORMATION FOR SEQ ID :279:	. •
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 276 base pairs	
٠	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	:
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :279:	
	ATGAAGAGAA AACCATCCTC CCATATGAAA ATATTTGCAG TAGGAGAACA	50
30	CAGTGCAATA GGCTCCAAAA ATGGCTTTTA AGACCTTTGG NGGGGCAGTT	100
	ACTACTGCTT TAAAAGCCAG GTTAAAGTAT ACTCTAAGCA AAGATGACCG	150
	TAGAGCAGCT AGCTTCCTTT TCTATAANNA TAGGGAAAGC TCTCTCCATC	200
35	GTCCATCAAA TCAGCTCTAG AAGGTTTTTC TTTCCCCNCT ATAAGTGCAC	250
	AAAGGGGAAA CACTGATTTC AAGCTT	276

(2) INFORMATION FOR SEQ ID :280:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 185 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :280:	
10	AGGAACAGGA TAGGTGTATG CATACTACGG CTAAGGAGAA ACAAGTCCTA	50
	CATACCAGGG TAGTGAGAAC ATTACCGCAT AACAGGGAAC TGTGATTATT	100
	TAAAAAACGC AGAACTTATT TTATCCGTGC TTTAGAAATA ACTGTATACA	150
15	GTGTTATAAG TTGAAAAGAA CTCAAAACAA CCAAT	185
	(2) INFORMATION FOR SEQ ID :281:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 186 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :281:	
30	AGGAACAGGA TAGGTGTATG CATACTACGG CTAAGGAGAA ACAAGTCCTA	50
	CATACCAGGG TAGTGAGAAC ATTACCGCAT AACAGGGAAC TGTGATTATT	100
	TAAAAAACGC AGAACTTATT TTATCCGTGC TTTAGAAATA ACTGTATACA	150
35	GTGTTATAAG TTGAAAAGAA CTCAAAACAA CCAATA	186
	(2) INFORMATION FOR SEQ ID :282:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 198 base pairs	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

5 -	(xi) SEQUENCE DESCRIPTION: SEQ ID :282:	
	TGTGGGCTCA GTAATGTCCC CGCTGATGAC AATTTCGAGA GTCCATGTTC	50
	TATAGAAACC TTGAGGTCGG CCAGCCGTGT CTTGGCCAAT GAGATGTAGT	100
10	TGTGAGGAGG GGGCGTACTT GGGGACCAGG GGTGGGTGGA GATGTGCCCT	150
	GTAGGCACAG GGAGACTCAA AAGCACGAGT TNTGAAAGCG TAAATGGG	198
15	(2) INFORMATION FOR SEQ ID :283:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 222 base pairs	
	(B) TYPE: nucleic acid	•
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
•		
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :283:	
	AGAAAAAGGT GAAGCGAAGC CCAAGGACAC CATGCTAAGG GCAAAAGTAA	50
30	GAGACAGTCT CAGAACTGAG AGAATCGTGT CTTCTGCTTT TTGAAGTAGA	100
.30	CTGTCACACT CAGGCAGCCT GTCAATGCTG AATGTTAGGA CTTCTGTCTC	150
	CGCTGGAGAC ACGCCTGGGC AAGTCAGCGT TTAGTGTTTG ACAGCTTTCT	200
35	CAGCTCCCTG ACTCCGTTTA CC	222
	(2) INFORMATION FOR SEQ ID :284:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 162 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

(D) TOPOLOGY: linear

. 5	(xi) SEQUENCE DESCRIPTION: SEQ ID :284:	
	ATGGATCAAA CTACCTCTAT AATGAAGACT GTTCTCAAAA ACGCGAGGNA	50
10	ATGTGNGACG ACACTGACCT ATCAGACAAG AGGGCATGCC CCCCTGGCCA	100
10	CCTTTGNCGC TGTTTNTGCA ACGTTCGCAG TGNTACTCTG CGTGAACCGG	150
	TAGACTGCTT GG	16
15	(2) INFORMATION FOR SEQ ID :285:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 67 base pairs	
*	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :285:	
	GGATCCANGC AAAGCCCACT CCTCCAGGGT GAAGTTTTTC TCCCGCGACA	50
	GACAGCAGAC TCGAGCC	. 6.
30		
	(2) INFORMATION FOR SEQ ID :286:	
·	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 153 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

(xi) SEQUENCE DESCRIPTION: SEQ ID :286:

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	GGTCGGATCA GGTCACCCGG CAGCAGCAGC TCTCGAGAGC TGAGGCACAA	50
· · · · · · · · · · · · · · · · · · ·	GGCAGGGGCC CGGCTGTACA CCTGCAGGAC CCAGGAGAGC CTGTTGCAGT	100
5	TCTTGTCCGA AGCGCCGAGA TAGCCACTCA GTGTCCCTGC AGCAGGAGCA	150
	GAA	153
10	(2) INFORMATION FOR SEQ ID :287:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 293 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	• :
15	(D) TOPOLOGY: linear	
		•
-	(xi) SEQUENCE DESCRIPTION: SEQ ID :287:	
20	TACTACGGCT AAGGAGAAC AATGTTCCTA CATATCACGG GTAGTGAGAA	50
	CATATCTGCA TAACAGGGAA CTGTGATATT TAAAAACAGC AGAACTTATT	100
25	CCATCGTGCT TTAGAAATAA CTGTATACAG TGTTATAAGT TGAAAAGAAC	150
	TCAAAATAAC TGATATAAAT ACATCTATGT ATTAGAATTT AAAAAAGCTG	200
30	CTTTCTGTGA AGTCAATCAG CTATATTAAA AATGACACAA ATCCAAAACC	250
30	GATGCATGCC ATATANAAGG GACATTGNAA GTCCGCTCGC TGC	293
	(2) INFORMATION FOR SEQ ID :288:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 114 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		*

AGGGTAAATG TACGTTGTTG AGTCACAGGC CTGCCAGACC TCTACTACCT 5 CATTGTCCCC TCCGGTGACC AGTTCTGCCG TCACTGTCAG GAGAATGCCC GTGTTGAATC ACTG (2) INFORMATION FOR SEQ ID :289: (4) SEQUENCE CHARACTERISTICS: (A) LENGTH: 290 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (C) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :289: (xi) SEQUENCE DESCRIPTION: SEQ ID :289: AAGGACGTTG CCAGGACTA CACGGTTACA GATCCAGCAA CTGCTCTNCC AAGGACGTTG CCAGGACTA CACGTTTACA GATCCAGCAA CTGCTCTNCC CAGTGCCACA ACCATGGGGC GCCAACCACA AGCAGGAGTG CCACTGCCAC GCGGGCTGGG TCCCACCCNA CTGCGCGAAG CTGCTGACTG AGGNGCACGC AGCGTCCGGG AGCCTCCCTG TCCTTGTGTG GGGTATGGNG CTCTGGCGTT 30 GNGCTGGTTA CCCTGTAGGA GTTANTGNCT ACCGGAAGCT (2) INFORMATION FOR SEQ ID :290: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 179 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		(xi) SEQUENCE DESCRIPTION: SEQ ID :288:	
(2) INFORMATION FOR SEQ ID :289: (a) SEQUENCE CHARACTERISTICS: (b) TYPE: nucleic acid (c) STRANDEDNESS: double (d) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :289: (xi) SEQUENCE DESCRIPTION: SEQ ID :289: (xi) SEQUENCE DESCRIPTION: SEQ ID :289: AAGGACCATG CCCGAGGTA CCCGGGTGTG GACCAGAGAA GTTTGCTGGA 50 AAGGACCATG CCAGGACTTA CACGTTTACA GATCCAGCAA CTGCTCTNCC 100 CCGGGCTGGG TCCCACCCNA CTGCGCGAAG CTGCTGACTG AGGNGCACGC 200 AGCGTCCGGG AGCCTCCCTG TCCTTGTGTG GGGTATGGNG CTCTGGCGTT 250 GNGCTGGTTA CCCTGTAGGA GTTANTGNCT ACCGGAAGCT 290 (2) INFORMATION FOR SEQ ID :290: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 179 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		AGGGTAAATG TACGTTGTTG AGTCACAGGC CTGCCAGACC TCTACTACCT	50
(2) INFORMATION FOR SEQ ID :289: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 290 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :289: (xi) SEQUENCE DESCRIPTION: SEQ ID :289: AAGGACCAGT GCCCGAGGTA CCCGGGTGTG GACCAGAGAA GTTTGCTGGA 50 AAGGACCATTC CCAGGACTTA CACGTTTACA GATCCAGCAA CTGCTCTNCC 100 CAGTGCCACA ACCATGGGGC GCCAACCACA AGCAGGAGTG CCACTGCCAC 150 GCGGGCTGGG TCCCACCCNA CTGCGCGAAG CTGCTGACTG AGGNGCACGC 200 AGCGTCCGGG AGCCTCCCTG TCCTTGTGTG GGGTATGGNG CTCTGGCGTT 250 GNGCTGGTTA CCCTGTAGGA GTTANTGNCT ACCGGAAGCT 290 (2) INFORMATION FOR SEQ ID :290: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 179 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	. 5	CATTGTCCCC TCCGGTGACC AGTTCTGCCG TCACTGTCAG GAGAATGCCC	100
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 290 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (C) STRANDEDNESS: double (Xi) SEQUENCE DESCRIPTION: SEQ ID :289: (Xi) SEQUENCE DESCRIPTION: SEQ ID :289: AAGGACGTTG CCCGGAGGTA CCCGGGTGTG GACCAGAGAA GTTTGCTGGA 50 AAGGACGTTG CCAGGACTTA CACGTTTACA GATCCAGCAA CTGCTCTNCC 100 25 CAGTGCCACA ACCATGGGGC GCCAACCACA AGCAGGAGTG CCACTGCCAC 150 GCGGGCTGGG TCCCACCCNA CTGCGCGAAG CTGCTGACTG AGGNGCACGC 200 AGCGTCCGGG AGCCTCCCTG TCCTTGTGTG GGGTATGGNG CTCTGGCGTT 250 GNGCTGGTTA CCCTGTAGGA GTTANTGNCT ACCGGAAGCT 290 (2) INFORMATION FOR SEQ ID :290: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 179 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		GTGTTGAATC ACTG	114
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 290 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 15 (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :289: 20 ATGAACCAGT GCCCGAGGTA CCCGGGTGTG GACCAGAGAA GTTTGCTGGA 50 AAGGACGTTG CCAGGACTTA CACGTTTACA GATCCAGCAA CTGCTCTNCC 100 25 CAGTGCCACA ACCATGGGGC GCCAACCACA AGCAGGAGTG CCACTGCCAC 150 GCGGGCTGGG TCCCACCCNA CTGCGCGAAG CTGCTGACTG AGGNGCACGC 200 AGCGTCCGGG AGCCTCCCTG TCCTTGTGTG GGGTATGGNG CTCTGGCGTT 250 GNGCTGGTTA CCCTGTAGGA GTTANTGNCT ACCGGAAGCT 290 (2) INFORMATION FOR SEQ ID :290: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 179 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	10	(2) INFORMATION FOR SEQ ID :289:	
(xi) SEQUENCE DESCRIPTION: SEQ ID :289: (xi) SEQUENCE DESCRIPTION: SEQ ID :289: ATGAACCAGT GCCCGAGGTA CCCGGGTGTG GACCAGAGAA GTTTGCTGGA 50 AAGGACGTTG CCAGGACTTA CACGTTTACA GATCCAGCAA CTGCTCTNCC 100 25 CAGTGCCACA ACCATGGGGC GCCAACCACA AGCAGGAGTG CCACTGCCAC 150 GCGGGCTGGG TCCCACCCNA CTGCGCGAAG CTGCTGACTG AGGNGCACGC 200 AGCGTCCGGG AGCCTCCCTG TCCTTGTGTG GGGTATGGNG CTCTGGCGTT 250 GNGCTGGTTA CCCTGTAGGA GTTANTGNCT ACCGGAAGCT 290 (2) INFORMATION FOR SEQ ID :290: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 179 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		(A) LENGTH: 290 base pairs	
ATGAACCAGT GCCCGAGGTA CCCGGGTGTG GACCAGAGAA GTTTGCTGGA 50 AAGGACGTTG CCAGGACTTA CACGTTTACA GATCCAGCAA CTGCTCTNCC 100 25 CAGTGCCACA ACCATGGGGC GCCAACCACA AGCAGGAGTG CCACTGCCAC 150 GCGGGCTGGG TCCCACCCNA CTGCGCGAAG CTGCTGACTG AGGNGCACGC 200 AGCGTCCGGG AGCCTCCCTG TCCTTGTGTG GGGTATGGNG CTCTGGCGTT 250 GNGCTGGTTA CCCTGTAGGA GTTANTGNCT ACCGGAAGCT 290 (2) INFORMATION FOR SEQ ID :290: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 179 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	15		
AAGGACGTTG CCAGGACTTA CACGTTTACA GATCCAGCAA CTGCTCTNCC 100 25 CAGTGCCACA ACCATGGGGC GCCAACCACA AGCAGGAGTG CCACTGCCAC 150 GCGGGCTGGG TCCCACCCNA CTGCGCGAAG CTGCTGACTG AGGNGCACGC 200 AGCGTCCGGG AGCCTCCCTG TCCTTGTGTG GGGTATGGNG CTCTGGCGTT 250 GNGCTGGTTA CCCTGTAGGA GTTANTGNCT ACCGGAAGCT 290 (2) INFORMATION FOR SEQ ID :290: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 179 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	20	(xi) SEQUENCE DESCRIPTION: SEQ ID :289:	
25 CAGTGCCACA ACCATGGGGC GCCAACCACA AGCAGGAGTG CCACTGCCAC 150 GCGGGCTGGG TCCCACCCNA CTGCGCGAAG CTGCTGACTG AGGNGCACGC 200 AGCGTCCGGG AGCCTCCCTG TCCTTGTGTG GGGTATGGNG CTCTGGCGTT 250 GNGCTGGTTA CCCTGTAGGA GTTANTGNCT ACCGGAAGCT 290 (2) INFORMATION FOR SEQ ID :290: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 179 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		ATGAACCAGT GCCCGAGGTA CCCGGGTGTG GACCAGAGAA GTTTGCTGGA	50
GCGGGCTGGG TCCCACCCNA CTGCGCGAAG CTGCTGACTG AGGNGCACGC 200 AGCGTCCGGG AGCCTCCCTG TCCTTGTGTG GGGTATGGNG CTCTGGCGTT 250 GNGCTGGTTA CCCTGTAGGA GTTANTGNCT ACCGGAAGCT 290 (2) INFORMATION FOR SEQ ID :290: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 179 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		AAGGACGTTG CCAGGACTTA CACGTTTACA GATCCAGCAA CTGCTCTNCC	100
AGCGTCCGGG AGCCTCCCTG TCCTTGTGTG GGGTATGGNG CTCTGGCGTT 250 GNGCTGGTTA CCCTGTAGGA GTTANTGNCT ACCGGAAGCT 290 (2) INFORMATION FOR SEQ ID :290: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 179 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	25	CAGTGCCACA ACCATGGGGC GCCAACCACA AGCAGGAGTG CCACTGCCAC	150
GNGCTGGTTA CCCTGTAGGA GTTANTGNCT ACCGGAAGCT (2) INFORMATION FOR SEQ ID :290: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 179 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	.•	GCGGGCTGGG TCCCACCONA CTGCGCGAAG CTGCTGACTG AGGNGCACGC	200
(2) INFORMATION FOR SEQ ID :290: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 179 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	30	AGCGTCCGGG AGCCTCCCTG TCCTTGTGTG GGGTATGGNG CTCTGGCGTT	250
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 179 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		GNGCTGGTTA CCCTGTAGGA GTTANTGNCT ACCGGAAGCT	290
(A) LENGTH: 179 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•	(2) INFORMATION FOR SEQ ID :290:	
		(A) LENGTH: 179 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :290:	
	AACCGCTCTC CACACCGCTC CCACGAGCTC CAAGCTTAAA CGTCCAGATN	50
5	NACTITGITG CTTTGCTGAT TITAACAGCT TGATTCTAAG CNCTTACTAG	100
	TATCATNTGT GGCAGGACTT GNTCCATATC AGTGTTACTT TTGCTACTGT	150
10	TTTGTAGAAC GATGTACATG AATGAGCCT	179
	(2) INFORMATION FOR SEQ ID :291:	
. •	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 199 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :291:	
	TCTTTCATTT TGNCTGCCAA TCATTGTCAG AAATTTAGGG AAGTCAATTG	50
25	TGCCATTACC ATCGGCATCT ACTTATTAAT TATGTCCTGT AACTCTGCTT	100
:	CTGTGGGATT CTGCCCAAGA GATCTCATTA CAGTTCCCAA TTCTTTGTTG	150
30	TTATAGTACC ATCACCATTT CGTTAAATAG TGAAAGAGCT TTTTGAATC	199
	(2) INFORMATION FOR SEQ ID :292:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 177 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :292:

	GGAAGACCAT TCTGATCATC CTCACTGACG CCAC GGCAA GAGGGTGGTT	50
	TTCCTGAAGC AGCTGGCTGT GGCTTATACT CGTGACTGGA CCTCTGGNCT	100
, 5	CAATTGAGTT CCTCAACGAA GACCACACCA GAAATTGTCA TTGCCACCTC	150
•	AACCGAANNG ATATTACAAT GTAAAAA	177
••	(2) INFORMATION FOR SEQ ID :293:	
10	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 295 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
*		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :293:	
20	ATTGGTTTTC CTCATCCACT GAGAATGCTG CTGGTTACTG CAAACGTTCA	50
	CCAACCANAG CTTTGGTCCA TACAGCTTTC TTCTAGATTN GGAGACTCTC	100
25	AAGGACAGCA GGNGCTTTAA AATCCCTGGA CTGTGTTGAG AGGGCTTCTT	150
.*	TAGGCTTTTC ATGATGTGAA TAGCCAGTCA TGAACTTTGN GTCTGTTTCT	200
30	TTTAGGCTCT TTTTGCAGCA GCAGAGCCAT GCTATNGAAG GAGTGAGAAC	250
	CTATGCGAGN GACCCNGTGN TTGNACTTGC CAGGGAGCTT GGCGT	295
	(2) INFORMATION FOR SEQ ID :294:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 78 base pairs	
	(B) TYPE: nucleic acid	
,	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :294:	• *
	AATGATCCTT TTTTCGCTCT TACCTATAGT ACAAGTCCAT GATACTACTG	50
5	CATATTTTAC CATTTTGNAA ACTGTGAG	78
	(2) INFORMATION FOR SEQ ID :295:	
		•
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 163 base pairs	
	(B) TYPE: nucleic acid	÷
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :295:	•
20	ATTCTGTACC TGTTCTGAAC CTCGCCATAA GGGACTTGCA GCTTCGATTT	50
	GCTAACCTGA AATTCTGCTG CTGCCATGGA ACAAGCCTGG GCTAGCTTGG	100
	GGGAGGAGGA GAGACCATGT GGAGTAGAGC CAAGCTCTGG ACATTTGAGA	150
25	GAGCCCGGTA ATA	163
	(2) INFORMATION FOR SEQ ID :296:	-
·	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 189 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(5) Islandi. Illicat	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :296:	
	AGCTTAGAGC GGAACGGGTT CCACGTGCGG TACTCCTGCT TCACGCCGCC	50
40	·	

CTCGGTCACC GTGACGCGCC TCTCGCCGTA CACAGACTGG CCCGGCACCA

		TGTTAGCGTG ACCAGCGCGT CCTCCGCCCC GCGTNAGATG AAGAGGCCCT	150
		CGTGCCGGTG CGCTCCACCG ACACCACCAT GGCCCCTTC	189
		Caldeedala edelectora memormoni edecetic	, ,
5		(2) INFORMATION FOR SEQ ID :297:	
		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 199 base pairs	
		(B) TYPE: nucleic acid	
10		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
15		(xi) SEQUENCE DESCRIPTION: SEQ ID :297:	
		GGAAACCAGC CCCTCACATC CTCCCTGAAC TTCCTGTCCC CACTCACACA	50
20		AGTGGTCCGG TGTCACCCTG CAGTTGGGTA TAGTCATAGG TACCATTGAT	100
20		GACGCCTTCT ACCTCGGCCA TGTAGGCCTT CCAGTCAACC TCTGTGTCTG	150
		GAAGAAGACA AGATGATCTG GTTACTTTTG AGTCTAGAAC TTGTCTGCC	199
25		(2) INFORMATION FOR SEQ ID :298:	
		() CROVIDNOR OVER A COMPRESSION	
		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 181 base pairs (B) TYPE: nucleic acid	
30		(C) STRANDEDNESS: double	
50		(D) TOPOLOGY: linear	
		(b) Toroboot. Timent	
35		(xi) SEQUENCE DESCRIPTION: SEQ ID :298:	
		AAAAGATGAT AAATCCACCC TCNTGCTCTT AAAATCCCAT AAACGNTAGG	50
	•	CTCTGGAGAA ACAAGTTGTT CTGTCGAGCC CTTGCCATCA ACACACTAAG	100
40		CAATCATAGT CCCCCAGAGC ACNAGATACT GCTAATGACC ATTANATNTT	150

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. •	GTATCATCAT GCTGCCTCCT GCATTTGAAT T	181
	(2) INFORMATION FOR SEQ ID :299:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 314 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :299:	
15	AACATTGTTT ATTCATCCAG CAGTGTTGCT CAGCTCCTAC CTCTGTGCCA	50
	GGGCAGCATT TTCATATCCA AGATCAATTC CCTTTTTAGC ACAGCCTGGG	100
20	GAGGGGGTCA TTGTTCTCCT CGTCCATCAG GGATCTCAGA GGCTCAGAGA	150
	CTGCAAGCTG CTTGCCCAAG TCACACAGCT AGTGAAGACC AGAGCAGTTT	200
	CATCTGGTTG TGACTCTAGC TCAGTGCTCT TCCACTACTT ATATNCGCCT	250
25	TGGTGCCACC AAAAGTGCTC CCCAAAAGGA AGGAGAATGG GATTTTTTCC	300
	GAGGCATGTA CATT	314
	(2) INFORMATION FOR SEQ ID :300:	
30	(1) 000000000000000000000000000000000000	
•	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 168 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :300:	
40	AAGAGTCCTG AAGGCATATC CAAGCCTGTT GTTCCTGCAG ACCTCATTAC	50
	initiality distributed and recognized	50

		CACGCCAACA GAGAAGGCTG GACTGCTGCC CACATGCTGC TTCCAAAGGT	100
•		TTTAAGAACT GCCTAGAAAT CTCGTGTAGG CACGAAGGGC TTGAGCCAGA	150
. 5		AAGGAGAGA AAGTGCAA	168
		(2) INFORMATION FOR SEQ ID :301:	
		(i) SEQUENCE CHARACTERISTICS:	
10		(A) LENGTH: 142 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
			•
15			
	·		
		(xi) SEQUENCE DESCRIPTION: SEQ ID :301:	. •
		ACCCCACATG CCCAGATGTC CACGNGCTTG CNATACGCCT CTTTGCAAAG	50
20			
		GACCTCAGGG GACAGGTACC TGGTGTGCCA GCGAAACCAA ACCATGCCTG	100
			•
		CTGGTTCCCC TGACCTCGAT AGCTAGGCCA AGTTTGCCAG CT	142
25		(2) INFORMATION FOR SEQ ID :302:	
		(i) SEQUENCE CHARACTERISTICS:	
.*		(A) LENGTH: 197 base pairs	
		(B) TYPE: nucleic acid	
30		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
•		(0)	
35		(xi) SEQUENCE DESCRIPTION: SEQ ID :302:	
		AGAATTCGTA ACTCATCCTA GAGTGGGCAC ATTTTAGACA TAGCAGGCGT	50
		GATGACCAAC AAAGACTGAA GTTCCCTATC TACGGAAAGG CATGACTGGG	100
40	ē		
•		AGGCCCACAA GGACTCTCAT TGAGTTCTTA CTTCGTTTCA GTCAAGACAA	150

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	TGCTTAGTTC AGATACTCAA AAATGTCTTC ACTCTGTCTT AAATTGG	197
	(2) INFORMATION FOR SEQ ID :303:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 236 base pairs	-
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	. •
10	(-,	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :303:	
15	AGAATTGCAA CTCATCCTAA GTGGGCACAT TTAGACATAG CAGGCATGAT	50
	GACCAACAAA GATGAAGTTC CCTATCTACG AAAAGGCATG ACTGGGAGGC	100
20	CCACAAGACT TTCATCGAGT TCTTACTTCT TTCAATCAAG ACAATGCTTA	150
	TTCAGATACT CAAAAACGTT TCACTCTGTC TTAAATGAAC AATTGAATTT	200
	AAAAGTTTTT GAATAAATGA TGAAAATTTT TTAACT	236
25	(2) INFORMATION FOR SEQ ID :304:	
	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 220 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :304:	
	ATGTCATTCT CCTCATCCTC CGCATCTCCA CTGTCGTGCA CAAGGACCAC	50
40	CATGTTTCCT TTAGTTCCCA GCACACGGGG CTCTGCAGTA GTGAATGAAG	100
40	TCTAGCACAG CCACCCCC CATCCCCACC CTCACCACCA CACTCACCA	1.50

	••	GTCCACCAAC ACACCGGGTA CGTCCACCGA GCCTCTCCAC TGCTCTGGCT	200
		TTAGGCCTCC CGTACAAACT	220
5		(2) INFORMATION FOR SEQ ID :305:	
	•	(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 145 base pairs	•
		(B) TYPE: nucleic acid	
10		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
15		(xi) SEQUENCE DESCRIPTION: SEQ ID :305:	
		AGAAGAAAGG ACACCATTAC CATCCATATT GACATCGCAT TTCCATAGAA	50
		ATGCCAAAGA AAGAAGGTCC TGGGGTTTTT TATAGAAGCT CAAAAAGNTC	100
20		AACCTTCGAT GCTATCCCCC AGCCCAATAC AAAATCAGAA AAAGC	145
٠		(2) INFORMATION FOR SEQ ID :306:	
25		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 120 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
30			
		(xi) SEQUENCE DESCRIPTION: SEQ ID :306:	
35		AGTCAAGGCA TTATGGTTTT TAATCTGAAA CTTAGAGAAC CCTTTAATAT	50
		TNGCTTTTAC TGGCGTACAT ATGAGTGGAA TATAAACTGT ACACACNNNG	100
		NGNTGATATA AACAGATNNA	120
40		(2) INFORMATION FOR SEQ ID :307:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 120 base pairs

	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	•
		٠.
	(xi) SEQUENCE DESCRIPTION: SEQ ID :307:	
10		•.
•	AGTCAAGGCA TTATGGTTTT TAATCTGAAA CTTAGAGAAC CCTTTAATAT	50
	TNGCTTTTAC TGGCGTACAT ATGAGTGGAA TATAAACTGT ACACACNNNG	100
15	NGNTGATATA AACAGATNNA	120
	(2) INFORMATION FOR SEQ ID :308:	
•	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 247 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :308:	
	ACTGCACCCA CCCCAAGGCC ATGGCAGGGT ATGGAGATGT CATTTATCAT	50
30		
•	AAGATGGACA GATAAGCTGG ACCAATAATT AAGATTCCAG CAGAGGGTGA	100
	GGACACCCAG ATGCGCCAGG ACTGTAGGAA ATCACAATGA TGGCAACGTC	150
35	TTGCCTTCCT GGGGACAGGG AGCCCTATTC AAANANAGTC ACATCTGAGG	200
	AGCCGGGGT TATAACATCA AGTCTGTCCT TGACCTCACA AAGCCAG	247
	(2) INFORMATION FOR SEQ ID :309:	
40		•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) IENGTH. 107 base pairs	

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(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	\cdot	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :309:	
	AGGTAAGGTT GTCACGTGGA ACAACTGATA AAGGTCAGCT ATATATGTAG	. 50
10		
	AGCTATATAT GTGAGTCACA AGGTGTGTGA CATACGTGTA TACGTATAAT	100
	ATGCGTT	107
15	(2) INFORMATION FOR SEQ ID :310:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 114 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :310:	
	GGAAGACCTC GCTGGACATC CTGCAGGGCC ACATGGTGGC TCTGCTTGTG	50
	ATTCTGGGGT CCACCCTCTC CAGTCAAGAG AACCCCCGTC GGGTTTAATG	100
30		
	TATCAGGAAA GAGA	114
	(0)	
	(2) INFORMATION FOR SEQ ID :311:	•
35	(i) SEQUENCE CHARACTERISTICS:	
J J	(A) LENGTH: 237 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(D) TOLOBOGI. IINEGI	

	103	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :311:	
	ATGGCAAATA GGAAGAAGCT CAGTATCCTC CTCCCACCAT AACCCCACTC	50
5	TCCACTGCCT CCTGGACCAT AGTTTCCTCC ACTATACGGT CCCCCCATGT	100
	TCCTGCTACC ACCAAAGTTT CCACTCTTTA TCGAACCGTA TTAGAAGGTC	150
10	GCTGGTTATA ATTTCCAAAA TATGTAATTT CCACTTCCAA ATCCTTTATA	200
10	GTTGTCATAA CCACCTCCGT AGCCCCCACC CTGTTGC	237
	(2) INFORMATION FOR SEQ ID :312:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 147 base pairs(B) TYPE: nucleic acid	·
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :312:	
25	TNNTCCACAA CAGNGGGACT ACTGAAGACT AGAGAACGCC TCTGTGNGAG	50
	TGGTGCAGAC AAAGACCTCA CTAAAGTGNG CTTAACAGAG TACTAGAGGA	100
30	GAGAACTTGG CAATAGCAAG TACAGACAAC TATGTGAGAA ATACTGC	147
	(2) INFORMATION FOR SEQ ID :313:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 151 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :313:

(D) TOPOLOGY: linear

	.•	CACAACAGNG GGACTACTGA AGACTAGAGA ACGCCTCTGT GNGAGTGGTG	50
		CAGACAAAGA CCTCACTAAA GTGNGCTTAA CAGAGTACTA GAGGAGAAA	100
. 5		CTTGGCAATA GCAAGTACAG ACAACTATGT GAGAAATACT GCTCCCAAAG	150
		G	151
10		(2) INFORMATION FOR SEQ ID :314:	
20		(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 287 base pairs	. •
		(B) TYPE: nucleic acid	
15		(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		(xi) SEQUENCE DESCRIPTION: SEQ ID :314:	
20		GAAGGTTGTA CGTGGACACT ATAAAGGTCA GCAAATTGGC AAAGTAGTCC	50
,		AGGTTTACAG GAAGAAATAT GTTATCTACA TCGAACGGGT GCAGCGGGAA	100
25		AAGGCTAATG GCACAACTGT CCACGTAGGC ATTCACCCCA GCAAGGTGGT	150
		TATCACTAGG CTAAAACTGG ACAAAGACCG CAAAAAGATC CTCGAACGGA	200
30	,	AAGCCAAATC TCGCCAAGTA GGAAAGGAAA AGGGCAAATA CAAGGAAGAA	250
		ACCATTGAGA AGATGAGGAA TAAGTAATTN ATATANA	287
-		(2) INFORMATION FOR SEQ ID :315:	
`35		(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 183 base pairs (B) TYPE: nucleic acid	. ,
		(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40			

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	(x1) SEQUENCE DESCRIPTION: SEQ ID :315:	
	GGAATCAAAC GNCTCTATAA TGAAGATAAT GTTCAGAAAA CGTGGGTTCT	50
5	GTGGTGACAC TGATTTATCA AGACAAGAGG GACATGCTTC CCCTTGTCCA	100
	CCTTTGCAGC CTGTTTCTGT CATGTAGTTT CAACAAGTGC TACCTTGAGT	150
10	GTAAACTAAG GTAGACTACT CTGNGAATAA GAA	183
10	(2) INFORMATION FOR SEQ ID :316:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 135 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :316:	
	GGAATGAATC AAACGNCTCT ATAATGAAGA TAATGTTCAG AAAACGTGGG	50
25	TTCTGTGCGT GCACTGATTT ATCAAGACAA GAGGGACATG CTTCCCCTTG	100
	CCACCTTTGC AGCCTGTTTC TGTCATGTAG TTTCA	135
30	(2) INFORMATION FOR SEQ ID :317:	
	(i) SPOURNCE CUMPACTERICS.	•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 187 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
J J	(b) ToroLogi: Timeal	
	\cdot	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :317:	
40	The second secon	-

CGTTTGAAAT TCATCCCAAC TGTAGGCTGA GTGACCTGAA GTTGACAGAC

	TGCCGAAGTC CAAAAGCTTC AGCATTTCCT TAGTGTCAGG ATCTACTTCA	100
	ATAATNNTGA TCCAAGGCTG AGACCTCAGA AACATAATGC TCTCCTTTCC	150
. 5	CTATNTTTC TGCGGCTTGA TGGAGATACC TTTACTG	187
	(2) INFORMATION FOR SEQ ID :318:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 268 base pairs	
10	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :318:	
	TCCCAGGAGA AGGAACTTTG AAATTCATCC CAACGTAGGC TGAGTGACCT	50
20	GAAGATTGAC AGACTGCCGA AGTCCAAAAG CTTCAGCATT TCCTTAGTGT	100
	dimensions nenotocom netochanne citonsenti tectingigi	. 100
	CAGGATCTAC TTCAATAATN NTGATCCAAG GCTGAGACCT CAGAAACATA	150
•		
25	ATGCTCTCCT CCCTTNCTTT TCTGCGCTTG ATGGAGATAC CTTTCACTGT	200
	GCCTCTCTGA ATCGTTTCAT CAGATGCTGA CGTAACCTGC TATTTGTTGN	250
•		
	AGCTTTCNGT TGNNNTAA	268
30		
	(2) INFORMATION FOR SEQ ID :319:	
	(i) SEQUENCE CHARACTERISTICS:	,
	(A) LENGTH: 138 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(b) Torobodi. Ilmear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :319:

	ACTGCACCCA CCCCAAGGCC ATGCAGGGTA TGGAGATGTC ATTTATTATA	50
	AGATGAACAG ATAAGCTGGA CCAATAATTT ACAGATTCCA CAGAGGGTGA	100
5	GGACACCCAG ATGCGCCAGG ACTGTAGGAA ATCACAAT	138
	(2) INFORMATION FOR SEQ ID :320:	•
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 118 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
	(b) Totobodi. Ilmedi	
15		
, 13		٠
•	(vi) SEQUENCE DESCRIPTION, SEQ ID .220.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :320:	
	AAATGATGAT AAATTCATCC TCTTCTGCTC TTAAAATTTC ATAAACCTCA	50
20		.
	GGCTCTGGAG AAACAAGTTG TTCTGTTGGG CCCTTGCCAT CAACACACTT	100
	GTAATCATAC TTCCCCCA	118
25	(2) INFORMATION FOR SEQ ID :321:	
	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 160 base pairs	
•	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :321:	
	AGAACAGTTG AAGGTCTGAG GTGTTGAGAG GCAAATGGGG TCTCTGGGTG	50
·	GATCCTGGTC CTGTCAGCAG GCCTGGACTT GTTCAGGATG GACTGGTGGC	100
40		
	CTTATAAACC CCACATCACC CTCCCTCTCC CTTCCCCATCT CCCTTAACAT	150

	· ITCCITICC		100
			•
	(2) INFORMATION FOR SEQ ID :322:	,	
5	(i) SEQUENCE CHARACTERISTICS:	· · · · · · · · · · · · · · · · · · ·	
	(A) LENGTH: 281 base pairs		
	(B) TYPE: nucleic acid		
•	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
10	(D) TOPOLOGI: Timear		•
10			
	(xi) SEQUENCE DESCRIPTION: SEQ ID	:322:	
		• • • •	
15	AGGAGGGAGT TAATCCAAAC CACACAATGA AGTCTT	CAAA CCACCNCCCG	50
	AACAGGGCTG CTGATTGTTC CTTTCACTTT TGNGGT	GACC TTGAGCTCCC	100
	TTAAAAAAA AACTTGGAGA ATCACAACTG GCAATG	CACC GCAGTTCTCG	150
20			
	AACTACACAA GCATAGTCTG ACTAAGTCAC ATGTGT	TTCC ATATCAACTT	200
•	GTTTGACAGG GCGACCTACT GCAAAGCAGG CTCAGT	TACC CCACCAGTCA	250
•			
25	ACCCCTGGG AGTATAATNN TCTCCATANA A	·	281
		• •	
	(2) INFORMATION FOR SEQ ID :323:		
.*	(2) 1,110,11111111111111111111111111111111		
	(i) SEQUENCE CHARACTERISTICS:		
30	(A) LENGTH: 99 base pairs		
, 30	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		
•	(D) TOPOLOGY: linear	·	•
35			
		•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID	:323:	
•			
	GGAATTTTCT CAAAGAAAAC GCAATAGCCA ATTGGA	ACCT ACTNTANCGC	50
40			
	ANTTTATNNN GTCTTCTTTA ANNTAGAGTG ACTTAG	TGAT TTATTATTG	99

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(2) INFORMATION FOR SEQ ID :324:

	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 167 base pairs	
5	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :324:	
	GGAATTTTCT CAAAGAAAAC GCAATAGCCA ATTGGAACCT ACTNTANCGC	E.
	COMMITTEE CAMPARANC SCHAINGCE ALIGORACCI MCINIANCGC	50
15	ANTITATINN GTCTTCTTTA ANNTAGAGTG ACTTACTGAT TTATTATTGA	100
	CACNNGTCCN NNGCNCNAGN TTACCATCCT TATGTGAATA CTNCAAGGGA	150
	TTGCCCGCGT TTTTAGG	167
20		
	(2) INFORMATION FOR SEQ ID :325:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 160 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
•		
30	(with Chounted Properties and an analysis	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :325:	
	TGATCCAACT CTTCCTGTGT GAAAAGAAGA ATGATGGCAG GAAGAACATA	50
35	AAGACTTTAA AACTCCTAGC CGGGGTTTGT CGGACTCTTT GNCAGTAGTG	100
	ATTTAGCCAA CCAGGCAACA GAGATACGAT CTAATCTCCT CGCCCCTCTT	150
40	TCGGGTCGCG	160
40	/2) INFORMATION FOR SEC ID - 224-	
	(2) INFORMATION FOR SEQ ID :326:	

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(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 124 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5 .	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :326:	
10		
	GGAAGGGGTG TTGTTTGATA GACATTATCT GTGGCTGGGT CTTTCTGGCT	50
	GATGAGAGAC ATGTAGATTA TGTGAAGCAA GTGGCTAGAA GATGAGAGAG	100
15	AACATGAGAG AGCAGAGTGC TCTC	124
	42) TUROPULATON FOR ORD ID 4327.	
	(2) INFORMATION FOR SEQ ID :327:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 253 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :327:	
	AGCCTAGTTT GAACATCCTC ATCCCNGTGT TAGACCGGAT CCGATATACA	50
30		
	GAGTCTTAAG GAAATCGCAT CAACGTGCCT GAGCAGTCGG CTGTGACTCT	100
	CGACAATGTA ACTCTGCAAA TCGATGGAGT CCTTTACCTG CCATCATGGA	150
35	CCCTTACAAG GCAAGCTACG ACGCGAGGAC CCTGATATGC CGTCACCCAG	200
	CTAGCTCAAA CAACCACGAG ATCAGAGCTC AGCAAACTCT CTCTGGACAA	250
	AGT	25
40		
	(2) INFORMATION FOR SEQ ID :328:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 200 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

· 5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :328:	٠.
10	GAACCTCTGG GCTCTCATCC TCTCCTATTG ACAGTGAAGC CCATGGCAAA	5(
	TAGAAGAAGC TCAGTATCGG CTCCTCCCAC CATAACCGCG TTNAAATCGC	100
15	CTCCTGGACC ATAGTTTCCT CCACCATAAG TCCCCCCATG CTCCTGCTAC	150
	CACCGAAGTT CCCACTCCTG NGCGAACCGT AGTTAGAAGA TCGCTGTTAT	200
20	(2) INFORMATION FOR SEQ ID :329:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 280 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :329:	
30	TGACCTGATC ATCCTGAAAA ACTTTATGGG GGAGAAAGGT CAGCAGCTTC	5(
	TCTTTCTTTT NTCGAAAATN ATAAAACTGC GTATTCTACT TTATATTTAA	100
35	TGTAAGGAAG AAAATATACA AGCCCATATT TACATCGTAT TTCTATTAAG	15
	AGCAACAATA GTTCATATGT TCATGTTTGC TACTATCACA ATNCAACATA	20
40	TGAACACAGA TCAGCTCTAT ACCATGAATA CTGCTGGAAG TGATGGTTTA	25
	GGATTACCAA CTCACTGCTG CCATGACCGA	28

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(2)	INFORMATION	FOR	SEQ	ID	:330:

	(1) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 268 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	·
	(D) TOPOLOGY: linear	•
		•
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :330:	
	CCTGAAAAAC TTTATGGGGG AGAAAGGTCA GCAGCTTCTC TTTCTTTTNT	50
15	CGAAAATNAT AAAACTGCGT ATTCTACTTT ATATTTAATG TAAGGAAGAA	100
	AATATACAAG CCCATATTTA CATCGTATTT CTATTAAGAG CAACAATAGT	150
	TCATATGTTC ATGTTTGCTA CTATCACAAT NCAACATATG AACACAGATC	200
20		ē
	AGCTCTATAC CATGAATACT GCTGGAAGTG ATGGTTTAGG ATTACCAACT	250
	CACTGCTGCC ATGACCGA	268
25	(2) INFORMATION FOR SEQ ID :331:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 170 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :331:	
	TCGCAGGAGA AGGAACCTAT ACACCCTTTA TAGAGCTTTA AATCGACTGT	50
•	AGAGTTTTGT GGTCTTCCAG TCCCAAATGT TTAATTTTCC ATTTGCATTN	100
40		
•	TGAAATCACA TAACTCATCT CTCAAAACTC CACCTCACAA COATACCTCA	

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	INCCATATOC CCTTANANT	17
	(2) INFORMATION FOR SEQ ID :332:	
5	(i) SEQUENCE CHARACTERISTICS:	
J .	(A) LENGTH: 223 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :332:	••
15	TCGCAGGAGA AGGAACCTAT ACACCCTTTA TAGAGCTTTA AATCGACTGT	. 50
		•
	AGAGTTTTGT GGTCTTCCAG TCCCAAATGT TTAATTTTCC ATTTGCATTN	100
20	TGAAATCACA TAACTCATGT CTGAAAAGTC CACCTGACAA GCATACCTGC	150
	TACCATATGC CCTTAAAAAT NNGGNNNNNG NNNNGGNTGA ANGGTTCTGT	200
	GTTCCAAAAA TNTAAGATTT GTT	223
25	(2) INFORMATION FOR SEQ ID :333:	· .
	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 132 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :333:	
	AGACAATTGG CGGCATCCTC GTAGGCTTCA CTAACTCCCA CAAGTTCTTC	5(
	TGGTTTCATT TCGGTTATTT TTTGCAGCCA ATTCTCTCCA TGTTTGGCAG	
40	TOTAL TOTAL TITLE THE CASE ATTECTION TOTAL	100
	TCACAAGGCT CATGTGCTTC ACCAAGGCAC TC	132

169

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(2) INFORMATION FOR SEQ ID :334:

	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 235 base pairs	
· 5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
10		i
	(xi) SEQUENCE DESCRIPTION: SEQ ID :334:	
	AAGTTGTTCA TGGNAGGCAT TTATCCTNTC AATAATNCAA ACGAGGCTTC	50
15	TGGAATAACC AGTGCCCCAT TCCATCAGAG TCTTTGCGCG ACTAAAGCCT	100
	CCATNTTTGC CAATTTCAAT TGTTTGGGAT TCTAGCACTC CTTACCNGCA	150
	GTAATGCCCT TGCTGCAGAC AACAACACCT GGACTGNGAG ATGGACCAAT	200
20	CIMITOCCI ISCICCACIO INCAMONOCI GONCIGNOMO MIGGACOMI	200
	TCTCAATGGC AATCCAGGGA AAGAGTGATC CTTCT	235
		•
	(2) INFORMATION FOR SEQ ID :335:	
25		
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 169 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
-	(xi) SEQUENCE DESCRIPTION: SEQ ID :335:	
35	ATGCCCGCAC CATCCGCTAC CCCGATCCCC TCATCAAGGT GAATGATACC	5
55	AIGCOCGCAC CAICCGCIAC CCCCAICCCC ICAICAAGGI GAMIGAIACC	. 31
	ATTCAGATTG ATTTAGAGAC TGGCAAGATT ACTGATTTCA TCAAGTTCGA	10

CACTGGTAAC CTGTGTATGG TGACTGAGGT GCTAACCTAG GAAGAATTGG

GNGATCACCA ACAGGAGAG

40

181

••	(2) INFORMATION FOR SEQ ID :336:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 193 base pairs	
5	(B) TYPE: nucleic acid	
_	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :336:	
	ATGCCCGCAC CATCCGCTAC CCCGATCCCC TCATCAAGGT GAATGATACC	50
15	ATTCAGATTG ATTTAGAGAC TGGCAAGATT ACTGATTTCA TCAAGTTCGA	100
.*	CACTGGTAAC CTGTGTATGG TGACTGAGGT GCTAACCTAG GAAGAATTGG	150
•	GNGATCACCA ACAGGAGAGG CACNCTGNAN TCTTTTGGCN NNG	193
20		
	(2) INFORMATION FOR SEQ ID :337:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 307 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :337:	
	CAAAAGTCAT CCACAAGTTC TTTGTCTAGG ACTTCTAGCT GCTCAGACCC	50
35	TCAGGGTCTT TGGATTGTTA CCAAAGTCTG TCAAACAGAC CAGTAGTTTA	100
	ATACCTGTAC AGAAAAATGT TTCTATTATG CTTCTAGTAT CTAGAAATTG	150
	CTTGCTACAG CATGGAGGTG GTTCTGCCTT TCCCTGGCTC CTCACACTCT	200

CATCTGCAGG ATTCCCAGCT TTGCTCAGTC TTCATGCCCA CCAGAGGCAA

	AAAGGCAAAC TAAAACTGTC ATGCAGTGGT AGGTTTGAAA TNAGCTGCTG	300
		207
	CATCATG	307
5	(2) INFORMATION FOR SEQ ID :338:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 305 base pairs	•
	(B) TYPE: nucleic acid	•
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :338:	
	AAAAGTCATC CACAAGTTCT TTGTCTAGGA CTTCTAGCTG CTCAGACCCT	50
	CAGGGTCTTT GGATTGTTAC CAAAGTCTGT CAAACAGACC AGTAGTTTAA	100
20	TACCTGTACA GAAAAATGTT TCTATTATGC TTCTAGTATC TAGAAATTGC	150
•	TTGCTACAGC ATGGAGGTGG TTCTGCCTTT CCCTGGCTCC TCACACTCTC	200
25	ATCTGCAGGA TTCCCAGCTT TGCTCAGTCT TCATGCCCAC CAGAGGCAAA	250
	AAGGCAAACT AAAACTGTCA TGCAGTGGTA GGTTTGAAAT NAGCTGCTGC	300
30	ATCAT	305
	(2) INFORMATION FOR SEQ ID :339:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 101 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :339:

•	AATATAAAGA GGAAATGGCT CNTCACCTTC ATAATACCAA GACCTGCTCA	5
	ATTTAAGATG GCCCTTGACA TTGAAATCGT ACCTACAGAA AGCTTGNAAG	10
5	G	10
	(2) INFORMATION FOR SEQ ID :340:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 113 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :340:	
	GTCGCAGGAG AAAAAAGTCG TCACGTCATG CGAGTGCGCA GGGGGCGTGG	50
20	AGAGTAGCAG TAGAGCAACA AAGTACATAT AGGACAGTGC AGCGAGGACA	100
	AGGACTTCCC GCA	11:
25	(2) INFORMATION FOR SEQ ID :341:	
•	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 209 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
		÷
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :341:	
	ACACAAATAA CTACATNTAC GCAATATAAT NTTTAAAAAT CCAAAGCAAT	5(
	ATAAAAGAGC AGAGCTAGGA CTGAACAGAA CATTTTGGTG TATAACCGGC	10
40	AGCTCAAAAT CGCCAGCTGA TTGGAGTAAA ACTGATTCTA AGCGTATTAA	15

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	ATACGATTGA TTGTTTCCAT CACTAAGGGT GCCTATGAGT TTCTGAA	CCA 200
	TTTCTAGGG	209
5	(2) INFORMATION FOR SEQ ID :342:	
	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 252 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :342:	
	GATCAANCAA AGCACAGGGA AAAGAGGCAA AATGATCACA GAAATCC	GTT 50
20	TTTTAGACAG GTGTGACTTA CACTAACGAA AAAGAAAAAC ACATGAA	TAA 100
	GCTTTTAATC TTCATTTTTN NNTTTTGTNA TGGTAGGCTG AGATGCT	TTT 150
	AAATGTGATG TTATAAGCCT AAGGCAGCTT GACTGCAGCA ACAAGTT	TTT 200
25	TACCCTCCTT GGCAAAGCAG GTCTCCTTAT GTAGCCTTGC AGCACTT	CTC 250
	TA	252
30	(2) INFORMATION FOR SEQ ID :343:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 258 base pairs	
	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
		•
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :343:	
	GATCAANCAA AGCACAGGGA AAAGAGGCAA AATGATCACA GAAATCO	GTT 50

	TITTAGACAG GIGIGACITA CACTAACGAA AAAGAAAAAC ACAIGAATAA	100
	GCTTTTAATC TTCATTTTTN NNTTTTGTNA TGGTAGGCTG AGATGCTTTT	150
5	AAATGTGATG TTATAAGCCT AAGGCAGCTT GACTGCAGCA ACAAGTTTTT	200
	TACCCTCCTT GGCAAAGCAG GTCTCCTTAT GTAGCCTTGC AGCACTTCTC	250
	TACAAAAC	258
10	(2) INFORMATION FOR SEQ ID :344:	
	(i) SEQUENCE CHARACTERISTICS:	:
	(A) LENGTH: 227 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
		•
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :344:	
	GAAGGAACCA GTGACCAGTC ATCCCCAGAG ATAGATGAAG ACCGGATCCC	50
25	CAACCCACAT TCAAGTCCAC TTTGCAATGT CTCCACGGCA ACGGAAGAAG	100
:	ATGACAAGGA TCACACCCAC AATGAAAGAG CTCCAGATGA TGGTTGAACA	150
30	TCACCTGGGG CAACAGCAGC AAGGAGAGGA ACCTGAGGGG CCGCTGAGAG	200
	CACAGGACCC AGGAGTCCGC CCACCTG	227
	(2) INFORMATION FOR SEQ ID :345:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 188 base pairs	
	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :345:	
	AAATAAAAA TAAGGTCCAA GCCAATGCCT AACAGATAAT AAGAGCTCAG	50
5	TAAATGTTGA TTGAATACTA ACAAAGTAGT GAAAGCAGAC GACACAGTAC	100
	CTGGCACACT ACTAAACTGT AAATGTTTTC AAATCTGAAT CTGTAGAATT	15
10	CTGTAAGGTT TTATGTAATA TGANGTCATT AGCTATCA	18
10	(2) INFORMATION FOR SEQ ID :346:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 262 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :346:	• •
	AAATAAAAA TAAGGTCCAA GCCAATGCCT AACAGATAAT AAGAGCTCAG	. 50
25	TARATGTTGA TTGAATACTA ACAAAGTAGT GAAAGCAGAC GACACAGTAC	100
	CTGGCACACT ACTAAACTGT AAATGTTTTC AAATCTGAAT CTGTAGAATT	150
30	CTGTAAGGTT TTATGTAATA TGANGTCATT AGCTATCATG NCTCTGGATT	200
	NNCTNNNAGG TTTTAAGATG GAGCATCTGN GNATGTCAGC CCGTCCTATC	25
	TAGAAGTGNA AA	26
35	(2) INFORMATION FOR SEQ ID :347:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) I PNCTU. 150 bags mains	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

	(xi) SEQUENCE DESCRIPTION: SEQ ID :347:	
	CTCTGTTTTC CAAACGCCCA TGTGTGCTAT ACTACAACTC TTCTCGAGTC	50
5	TGATCAATTT GCAGTAGACC ATTTTAGTTC TTACGACGTT AATAACAAAC	100
	ACTTCAACAT CANTGCTCCA ATCTGAAGTT CTTGTTGCAT TGTTAAAAGA	150
10	AATNTCTAA	159
	(2) INFORMATION FOR SEQ ID :348:	
	(i) SEQUENCE CHARACTERISTICS:	•
15	(A) LENGTH: 283 base pairs	
	(B) TYPE: nucleic acid	•
•	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
•		
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :348:	
	TCGCAGGAGA AGGAAGCTGC ATGCACTTGA AAGGCATGGC CTGTCTCCTC	50
25	ACTGAGTGCA AGGTCCATCG ACCAAAGCCC TGTTCTGATC AATAACATCT	100
•	ACAATCGCAC CAATTTTCCG GCATGAGGTC CAAAGGAGAC ATAGGCCACC	150
30	CGGCCAACCT CCACGAAGCG CCTGAACACC ATGCGCTTCC CGGGACCCTC	200
	TGGGAGCCGT TCGCNCCTCA GCTTCCCAGC GAGGTGGAGG TCGAGCGGCA	250
·ne	TGGNCGACGC CCCGGAGCCC ACAACAGTAA GAC	283
35	(2) INFORMATION FOR SEQ ID :349:	·
	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 169 base pairs	
40	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID :349:

5	CAGAAAGGAG GCATTGAGCA AAAACTAGGA AAATCTGAAT AAACNGTGGA	50
	CCTCGCTTGG TTAATATATT TANACTGGTG ACTCATTTTA AAACTTTCCC	100
	GGGCGCGATG GCTCATGTCT GCAATCCCAG CACTTGNGAG GCTGAGCGGG	150
10	TGGATCACCC AGGTCAGGA	169
	(2) INFORMATION FOR SEQ ID :350:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 175 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :350:	
25	GAAGNAACCA GTACCAGTCA TCCCCAGAGA TAGATGAAGA CCGGATCCCC	50
	AACCCACANT TAAGTCCACT TTGCAATGTC TCCACGGCAA CGAAGAAGAT	100
	GACAAGGATC ACACCCACAA TGAAAGAGCT CCAGATGATG GNGAACATCA	150
30	CTTGGCAACA NCACAGGAAG GGACC	175
	(2) INFORMATION FOR SEQ ID :351:	
35	(i) SPOUPNOE CHARACTERISTICS.	

35

i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 206 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

40

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	107	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :351:	
	AAATAAAAA TAAGNACCCA ACCAATGCTA CAGATAATAA GAGCTCAGTA	50
5	AATGTTGATT GAATCACTAA CAAAGATAAA AGCAGACGAC ACAGTACCTG	100
	GCACACTACT AACTGTAAAT GTTTTAAAAT TGAATCTGTA AAATTTGTAA	150
	GGTTTTATGA ATATAATATT ATTAACTATT ATGTCTCTGA ATTTTTNNNN	200
10	NAGGCT	206
	(2) INFORMATION FOR SEQ ID :352:	
15	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 76 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :352:	
25	AGACATACTG TAGTGTCTAA ATAATATTTG TCNGAAGATA ACAATTATGG	50
·	GACTTTAAAG CCGACAGTGA AATTAT	76
120	(2) INFORMATION FOR SEQ ID :353:	
30	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 245 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
•		

(xi) SEQUENCE DESCRIPTION: SEQ ID :353:

ACATTTGGCC CTCAGACTGT AATTTCCATA CTACTNTGAC TGATACTAGA

190

TGACCTGGCT GCCTAGGGGC TGTGCTGGTC TGATTTTTTG TGAGACAAAA

	\cdot	
	 ACCACTCTAA ACCTCCTGGT GCACTGAGGC TGTACACACC GNCAGAACAG	150
5	GGCACTGCGT TTAAAAGTTT CTGACCAAGT GGTGACAACA GAGGNCAAAC	200
	GTAAGGCTGT CTGGATAAGT TGAACCTNGC TGANCGGTAG CACCA	245
•	(2) INFORMATION FOR SEQ ID :354:	
10		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 179 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
•		
	 (xi) SEQUENCE DESCRIPTION: SEQ ID :354:	
20	(XI) SEQUENCE DESCRIPTION: SEQ ID :354:	
20	GGAATCTGTG CCACACGCT GCACACGACT ACTGGCCAAA GGACAGCCTC	50
	AGAACATCAT GAGCTGGCGT GACCTCATGA TGNNCCTCAN TGCTGTGGGG	100
25	CTTCTGCTNG AGGCCAGCAG AGGCTCGTAT GACTACCTGT NAGACCTGCT	150
	CTTTGGGTTG AGACTTTTCA GNGACAACT	179
	(2) INFORMATION FOR SEQ ID :355:	
30		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 139 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :355:	
40		
	AAGGAACGNA TGACTTTCCA TCCCTTGAAC CAAGGCATGT TAGCACTTGC	50

•	TCCAGCATGT TGTCACCATT TCAACAGAAA TCGCACAAAT GCTACTGTGC	100
	AAGGTGCAGC CAATTTNTT GTAAGTGTGA TTTCTTACG	139
5	(2) INFORMATION FOR SEQ ID :356:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 100 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
٠.		
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :356:	
	TCCAGGAGAA GGAAAACTTC CACTTATAAC TGTNTCAGCC TGACTATAAT	50
,	GAAGAGACTA GCAACACCTC CTGAACACAA GCCTANTGAG CCCAGTCTTT	100
20	Cimononia Cominació Cominación Co	
20	(2) INFORMATION FOR SEQ ID :357:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 137 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
•	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :357:	
	AGAAGGAAAC ACCAAAGAAA CATCCAAGCA ATAAAGTGGA AGACTAACCA	50
35	AGATTTGGAC ATTGGAATGT TTACTGTTAT TCTTTAAGAA ACAACTACAA	10
	AAAGAAATG TCAACAAATT TTTCCTAGCT AACTGAG	13
·	(2) INFORMATION FOR SEQ ID :358:	
40		
	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 228 base pairs	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(D) TOPOLOGY: linear 5 (xi) SEQUENCE DESCRIPTION: SEQ ID :358: AAGGAACAAG TGGGTCATTC TCACTAAGGC TGCCTGTCAC TGCAGTCTTG 50 10 ATCAGCTTGT CAATTTGATA CTTCAGCTTT TGGTCCAAGG GACGAAGCTT 100 TTCCAAAACC GTTCGAATCT CTACCAGTCT CAAAACTGCA TCATGTCCCT 150 15 GAAGAGATCC TCCTGAGGCT TTGTCCAGAA TGAGGTGGGT CAAATNNANG 200 GGNACATGAG CAGCAGCTGN TCTTTAAC 228 (2) INFORMATION FOR SEQ ID :359: 20 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 248 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 25 (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :359: 30 CAGGAGCAAG GAGGCCATTT TGCTGAGCTC TCACAGCTGC TAGAGATGCT 50 CAATGACTCC CAATACAACC CAAAGAGACA AACGCTTGTT TTTTCTGCCA 100 35 CACTCACCCT GGTGCATCAG CTCCTGCTCG AATCCTTCAT AAGAAGCACA 150 CCAAGAAAAT GAATAAAACA GCCAAACTCG ACCTTCTTAT GCAGAAAATT 200 GGCATGAGGG GCAAGCCCAA GGTCATTGAC CTCACAAGGA ATGAGGCC 248 40 (2) INFORMATION FOR SEQ ID :360:

(i) SEQUENCE CHARACTERISTICS:

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(A) LENGTH: 253 base pairs

5	(D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :360:	
10	AGGCACCTGT GGAGCCATCC TCCTTGTTTT AATCGTCCTG CTGCTGCTGC	5(
	CGTTCCGTGT CGCGTCGCCC ACATGACCCT GAGGTCGCAA TGATGAGTCC	100
15	TCTCTGGTCA GACACCGCTG GAAATGAATA CCAGGCCTGA CCTCAAGCAA	150
·	CCATGAACTA GCTATTAAGA AATACANNGG NAGGGCGGCA GCCGGATCGT	200
	GNNGGCGTTT NTCTGNGCCG CCCGTCTCAA TCTNTGTTCT GCTTCCAGAT	250
20	GCC	25
	(2) INFORMATION FOR SEQ ID :361:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 154 base pairs	· .
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	•
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :361:	-
35	GAGAACCACG GGCTCCATCC TGGCCTCCTG TNCACCTTCG AACAGATGCG	5
	GATTAGCAAG CAGGAGCACA CGAATCAAGC CCCTCCAGCC ACCAAATTTT	10
40	CTAAACNGGC TNGGCNATGT CGTAGTTNGT TGTCAGTNGA TCGGTAGAGA	15
	TAAT	15

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		(2) INFORMATION FOR SEQ 10 . SOZ.	
	٠	(i) SEQUENCE CHARACTERISTICS:	•
		(A) LENGTH: 168 base pairs	
5		(B) TYPE: nucleic acid	
5		(C) STRANDEDNESS: double	•
		(D) TOPOLOGY: linear	
		(5) 101020010 12.0005	• .
10			
		(xi) SEQUENCE DESCRIPTION: SEQ ID :362:	·
		GAGAACCACG GGCTCCATCC TGGCCTCCTG TNCACCTTCG AACA	GATGCG 5
15		GATTAGCAAG CAGGAGCACA CGAATCAAGC CCCTCCAGCC ACCA	AATTTT 10
		CTAAACNGGC TNGGCNATGT CGTAGTTNGT TGTCAGTNGA TCGG	TAGAGA 15
•		TAATCCTGNC CACGCCCT	16
20		(2) INFORMATION FOR SEQ ID :363:	
		(i) SEQUENCE CHARACTERISTICS:	•
		(A) LENGTH: 198 base pairs	
25		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
30		(xi) SEQUENCE DESCRIPTION: SEQ ID :363:	
		AAGGGATAAA AGGAAGCTTT GNCACCACTC TACCATCAAA NNGG	AATTGA 5
35		ACATTCCCAT TAAGGCAGTA AAACAAAAGC CAATAGCAAA CATG	NATTTC 10
	:	ATTCAACCAT TGATAGATCT CTGCCGTTAT TCTTCAGTTT CTCT	TCTCGT 15
		CTCTCTATTT NTTTCTCTGG TTGTCGACCA GCTGACTNTG NCAT	CCGTT 19

(2) INFORMATION FOR SEQ ID :364:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 121 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :364:	
10	TTATACAAGT CAAACTTGGA AGGTCATAGT AAGCATACCT ATGCTGAGAG	5(
	AAAAGCATCA AATCCTCCGC GACACATCTA GTTCATCGTA ACAAAGCAAC	100
15	TCGTACACTT TCAAGTTTAA A	12:
	(2) INFORMATION FOR SEQ ID :365:	
	(i) SEQUENCE CHARACTERISTICS:	19
20	(A) LENGTH: 211 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :365:	
30	GGTAAGTTGT ATTTGGGCCA GAATTTTAAA GAGCACTATT TCGACATTAA	50
	AATGTATTCT TCTCGTATTA ATGCCTACAT CTTCAGAGTT TTCAATGCTT	100
	TCTAAAAGTT TCCTCTTTGG AAAGAAGAAA TCTGAAAGAC CTATCATGCC	150
35	GTTCTTCCTG GCGTCTATAT TTCCTTTAGA GAGGCAAGGT AGGATTCCGT	20
	CTCCAAGGGA G	21
40	(2) INFORMATION FOR SEQ ID :366:	
	(i) SEQUENCE CHARACTERISTICS:	•

(A) LENGTH: 285 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
		•
· 5		
3		
	() CEQUENCE DESCRIPTION. SEC ID .366.	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :366:	
		E0.
	CGGCTACAGC ATCACATCCA CTAAATGCAC AGTTGTTGAA GTCACGCCCT	50
10		100
	GCCAGACCTC TACTACCACA TTGTTCCCTC CGGTGACCAG TTTGTCCGTC	100
		150
	ACTGTCAGGA GAATGNCCCG TGTCGAATCA TCGATCTCCA TCCGAGCCAA	150
15	AAGTTTTCCA TATGCTGAAA TTACTGAATT GCCCTCGTTT ATAGTATATG	200
	ATACAGTGGC CTTCGTTGGA GGCAGATATC AAGCATGGGG ATAAGCAGTT	250
	TTCTGGTCCT TAAGGGCTCT CAGCAAATCT CCGTG	285
20		
	(2) INFORMATION FOR SEQ ID :367:	•
		•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 149 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :367:	
	GACACTGAGG CAGCTACTGA GAAGGGCAGA ACATGTCTCA ATCCATAGAG	50
3 5	GTCTTGGCAG GCGAACCCAG AGAGACTTGC AGTACGTGAG AAGATGGAGA	100
	ACCAAATAAA AGGACTGGAG TCCAGTTCAA ACAAGGAGGG AGTGGTAGT	149
	(2) INFORMATION FOR SEQ ID :368:	
40		
· .	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 137 base pairs

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		ė
5		
	A DESCRIPTION OF THE 260	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :368:	
	GGTTCCCGCT CTCACAGCCA TTGCAGTACA TGAGCTCCAT AGAGACAGCG	. 50
10		
	CCGGGGCAAG TGAGAGCCGG ACGAGCACTG GCGACTTGTG CCTCGCTGAG	100
•	GCAATACTAT AATANGCAAG GAACTTTTGA GGCCGAG	137
15	(2) INFORMATION FOR SEQ ID :369:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 192 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :369:	
	GCCATCATAA GTTCAAAAGA AAAGAGAAAG TGTTATTTTT CTGTTAGTGA	50
	CATGTAGTCC CTTTGTTCTA GTAGGAAAAA AGGTGCCTAG AGGTAGTATA	10
30		٠.
	TAGAGTAAAT ATTGTTCCTT TGCCTACTCG TGCTTCCAAT GATTAAGGAA	150
	AMORTON NA ANAMORNA ANA MORGEREMENCE ON AMORGEOGO CE	10
	ATGTTAAACA NNNGTNAAAG TCTGTTTTGT CAATGCGGGA GT	19
35	(2) INFORMATION FOR SEQ ID :370:	
	(b) Intolantion for obe 15 to the	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 197 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :370:	
-	GAGACTTAAG TAAAACGGCT GCAGGCCAGA TTCGCCCACC AGCTCAGAGA	50
5	CCACCTTTAT CCATGCTTTG AAGTAGGACT CCTTCCGTCT TCAAAATNTT	100
	GAAGACCCTA ACANGCTTTT ATGATGGGGG TCATATCTAT GGTCACGNAT	150
10	ATAGTAGAAA CCAAAAGAAT GTAAGTATTT GTNNATGATT TAAAAAT	197
	(2) INFORMATION FOR SEQ ID :371:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 114 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
•		•
20 .		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :371:	
•	GCATCTGNCA GCTGCTGCAG GCTGACAGCC TCCAGACCTG GACAGAATTC	5
25		
	ATACACTCCC GGAGCTGAAA AAACCGAACA TAAGGGAGTG CACAAGAGCC	10
	GGGCTTTGGA GAGG	11
30	(2) INFORMATION FOR SEQ ID :372:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 127 base pairs	
	(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :372:	

CTTTCTCTAC TCCATCCATT ATCTCCGGGA TTCCTCCACA TTCCCTTCAG

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	CTCCTAGTTG TTCCACCTTG GCTAACAATT TACCAATCTT TTTTTCTATG	10
	AACACGTTCT GCCTTTGCTG CTACTTC	12
5	(2) INFORMATION FOR SEQ ID :373:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 257 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
•		
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :373:	
	AAGCGCTCAA TTCGCATCCA CAATGCAACC ACGAACTGAT TTTCTCTTTC	50
20	TTTTTCAGTT CTCCTTGGTC TGTAACAGGA ATGCCCCTTA CTCAGTAGCA	100
	GGCGGACACG GCCATGGGTC AAGACACCCT GCTTCATGGG GAAACCTTGT	150
	TTGTCGTTCC CACCACTGAT TCGGACCACA TAACCTTATN NNATCCCGAG	200
25	CGTTAGCAGC AACTTTTGTG GCCATACGCT TCTCATAGAA AGTACGAAGT	250
	TTGGCAT	25
30	(2) INFORMATION FOR SEQ ID :374:	
	(i) SEQUENCE CHARACTERISTICS:	·
	(A) LENGTH: 180 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :374:	
40		

GCATCATCAT TGACATCCCT ATCAATGTCT ACGCTGCTGG CAGAGGACTG

	•	NCCATTTGGA GCTGAGATGT GTAAGCTGGT GCCTTTAATA CAGAAAGCCT	100
		CCGTGGGAAT CACTGTCTGA GTCTTGTGTC TAGTATTGAC AGATATAGCT	150
. 5		TTGTTCTTGG AGTAGAATTA AGGAATTGCG	180
		(2) INFORMATION FOR SEC ID :375:	
		(i) SEQUENCE CHAR TERISTICS:	
10		(A) LENGTH: 323 base pairs	
	•	(B) TYPE: nucleic acid	•
		(C) STRANDEDNESS: double	
·	•	(D) TOPOLOGY: linear	
		(b) 101020011 2111022	
15			
		(xi) SEQUENCE DESCRIPTION: SEQ ID :375:	٠
		GGACCATTCT GATCATCCTC ACTGGACGCC ACAGGGGCAA GAGGGTGGTT	50
20		GGACCATICI GATCATCCIC ACIGGACGCC ACAGGGGCAA GAGGGIGGTI	50
20		TTCCTGAAGC AGCTGGCTAG TGGCTTATTA CTGTGACTGG ACCTCTGGNC	100
		TCAATCGAGT TCCTCTACGA AGAACACACC AGAAATTTGT CATTGCCACT	150
25		TCAACCAAAA TNGATATCAG CAATGTAAAA ATCCCAAAAC ATCTTACTGA	200
		TGCTTACTTC AAGAAGAAGA AGCTGCGGAA GCCCAGACAC CAGGAAGGTG	250
		AGATCTTCGA CACAGAAAAA GAGAAATATG AGATTACGGA GCAGCCAAGA	300
30		TTGATCAGAA AGCTGTGGAC TTA	323
•	,	(2) INFORMATION FOR SEQ ID :376:	
35		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 223 base pairs	
		(B) TYPE: nucleic acid	
	• ;	(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
40			

	(xi) SEQUENCE DESCRIPTION: SEQ ID :376:	
	GGGGAATCCC ACCTCACCCA TTGNGGTGAA ATGCTTTTTT CTAAGAGGTG	50
5	AAATCACTCG CTGGTGTTTA TTTCGGCACA ACCAGAAAAT AGTGNGGGAT	100
	ATTGAATTAT GGGAGGCTCT GACTGTCTCG NGTGCAGCTT ACATTCACAG	150
10	ATGGGGGGTA GTTTTTATAT TCTATAAGCG AGCATATTAA ANGCAATATG	200
	AGTCAGTCCT GCATTTATGT CTT	223
	(2) INFORMATION FOR SEQ ID :377:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 122 base pairs(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :377:	
25	GGCTCAGGAT CCGGCATCCT TTATGCCTCC ACAGCACCTT GCTCTTTCCC	50
	CAGCCAATCA CTTTAGATGC TGAATCGATT TTAAACANAT GTTTTGTCAT	100
20	ATGGCTAATC AAGAGCCAGG TA	122
30	(2) INFORMATION FOR SEQ ID :378:	
35	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 195 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :378:

	GGCAGTGCGT GCTTCATCCC TTTATGAAGA ACAGAAAATT ATGACTACTC	50
	TACAAGGTGG ATAATACTTC GGTACCTTGC TTGCCACAGC CCTGTTCCTC	100
. 5	AAAGCTGAAT TGATAAATTT CTCTTTGACT TCCAAGACCT AGCAGTTATA	150
	AGGCGCCTTG AATAAAGTTT GTGCCTGAAA ATGTGGAGCA ATGCT	195
10	(2) INFORMATION FOR SEQ ID :379:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 210 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :379:	•
20		
	GTAGCCCTGA GGTCATCCTG CAAAGNGCGT ATCAAAAAAN ACGAAGTTAG	50
	GGTGACAAAG TTTGACAGTG ATGTTTACAA GTCAAACTTG GAAGGTTATA	100
25	GTAAGCATAC CTANGCTGAG AGAAAAGCAT CAAANCTNNG GNACATANTN	150
	GGTTTNTNGN AACAAAGCAA CTTGTAATTT AAGNTTAAAC NGAGCATCAT	200
	ATANNNNGG	210
30		
	(2) INFORMATION FOR SEQ ID :380:	
*	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 238 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :380:

·	CTGGCTCACC TGGACAACCT CAAGGGCACC TTTGCCACAC TGAGTGAGCT	50
•	GCACTGTGAC AAGCTGCACG TGGATCCTGA GAACTTCAGG CTCCTGGGCA	100
5	ACGTGCTGGT CTGTGTGCTG GCCCATCACT TTGGCAAAGA ATTCACCCCA	150
	CCGTGCAGGC TGCCTATCAG AAAGTGGTGG CTGGTGTGGC TAATGCCCTG	200
10	GCCCACAAGT ATCACTAAGC TCGCTTTCTT GCTGTTCA	238
10	(2) INFORMATION FOR SEQ ID :381:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 275 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :381:	
	GTCCTATGGC ATGAATGTTT GCAACCAACC CAGGAAAAGC CTTAAAGGAA	50
25	ATAGCTGTTC ACATAGGAGA CCGTGACAAT GCTGTACGCA ATGCTGCACT	100
	CAACACCAAG CAACGATGCA CAATGTACAT GAGGATCAGG TGTTCAAACT	150
žΛ	GATTGGAAAT CTTTTTGAAA AGGATATGAG CATGCTCGAG GAGAGGATTA	200
30	AGCGTCAGCA AAGAGACCCT CTCTGCACCA ATAAAACAGG TGGAAGAAAA	250
	CCTAGCNCGC ACAGAACATA AGCTC	275
35	(2) INFORMATION FOR SEQ ID :382:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 96 base pairs	
40	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :382:	
	AAGCAGAGTA CGCACGTCAG GCCCTTCCAC GCCCACCCCA ACACTTTAAA	50
5	CNTACTGGGC GATGGGGCCG TTTNGCTGGC AGTTCAAGAT AAAACA	96
	(2) INFORMATION FOR SEQ ID :383:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 196 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
		-
	(xi) SEQUENCE DESCRIPTION: SEQ ID :383:	
20	GGACTTGATG GCTTCTTTCA AAGTCATAGA CTTGTGGTAA ACTTCTTGCA	50
	AGGAGCTCTG GGCACCCTCT GAAGCAGAGC CAATTGCTCG AGCATCACAC	100
0.5	TGTACAAAGG TCCAGATGGG TTCATATGAA ACAGCTGGAG TCCTTTTCAT	150
25	CAATNCNAAT NGANNGGTTA CTCCAAAGGG ACGAGACATG CACCTG	196
	(2) INFORMATION FOR SEQ ID :384:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 206 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
- -		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :384:	
40	AAGGAGGCCT TTGAGTCCCA TCCTCTGCCA CGCAGAGAGG CAGGCCTGGC	5

ATTTCAGCCT CACTTTGTGT AGGTCACTTT TCGGTCTGTG TTGTAGCTCA

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•	CCAACCAACA GTCAAACCCC AGCGTGGTAG CACGAGGTCC AGAACCTCTG	150
	CTTAGTGGGC CCGTATAATA AACGCAACCT GACCCAATTN NGGTTTCTTT	200
5	CCCCAT	206
	(2) INFORMATION FOR SEQ ID :385:	
	(i) SEQUENCE CHARACTERISTICS:	,
10	(A) LENGTH: 134 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		٠.
15 .		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :385:	
	GAATGCTTGG GATCATCCAG GTGNCTCTAT TTATAGGCAC CTGTGTTCAC	50
20	CAGCAGTCTC TCTATTAGAA TGCTTGGTGT GCCAATGTTT CTTGAATTAG	100
	AAGCCTGGGG NCACCTAGGT GTTTCTATTA TAAA	134
25	(2) INFORMATION FOR SEQ ID :386:	
	(i) SEQUENCE CHARACTERISTICS:	*
	(A) LENGTH: 161 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :386:	
	CAAGGCCTTC CTGCACTGGT ACACGGCGAG GGCATGGACG AGAGGAGTTC	50
	ACCGAGGCCG AGAGCAACAT GAACGACCTG GTGTCCGAGT ACCAGCAGTA	100
40	CCAGGACGCC ACGCCGACGA ACAAGGGGAG TTCNGAGGAG GAGGAGGCGA	150

	GGACGAGGCG 1	
	(2) INFORMATION FOR SEQ ID :387:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 170 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10	(5) 20102011 2111021	
	(xi) SEQUENCE DESC TON: SEQ ID :387:	•
15	GGTGAGCCTC CGCCATCCAG C: CAAAC TGTGC GAC CGCAGCTGTG	50
	CCGTGGCACG ATGGCGAGGA AGCCAGCCCC AAGGA .CAC TGAAAACACA	100
20	ACCAGTCAAT GCCGTGTGGT TTTGTTTGAA TATAAATNGC TGAAAGTGTT	150
20	GTTTTTNAG GCAGTAATNT	170
	(2) INFORMATION FOR SEQ ID :388:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 250 base pairs	
	(B) TYPE: nucleic acid	•
•	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :388:	
35	TCCATCTGAC ATCGCATTTC CATAGAAATG GCCAAAGAAA GAAGGTCCTG	50
	GGGTTTTTCA TAGAAAGCTC AAAAAGTTCA ACCTTTGATG CTATCCCCCA	100
	GCCCAATACA AAATACACAG AAAAAGCAAT TATTAAAAAC GGCTTCGGTT	150
40	TCTTTTTCT CTTTAATNNC CTACAATNGC TTTACATATT CGTGTGCAGC	200

••	ACCTACTTCT TTATGCCGTG AACTGAAATC TAAGATTTCA AACTGAAATC	250
	(2) INFORMATION FOR SEQ ID :389:	
5	(i) SEQUENCE CHARACTERISTICS:	
-	(A) LENGTH: 268 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	,
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :389:	
		:
15 .	GCCATCTCCC CGCCACCCNC TCGTCCCCTT CTTNTCNNGC CACCCTTCCT	50
	CNCTCNTCCG TTTTNGCTCC ACTCCACTCC TCCNTTTTNA GTACCCTCCT	100
•	CNTTTATNTA GAGTTACTGA GAGCCGACCT GACGTCTCCA ACATNCCGTN	150
20		•
	TCTTATATCT CATCNCGGTT NTNGANGAAT GNAGTNAGGG TTTCCGGGAG	200
	ACACCONA COM TROCTOMA COM COMPANIA COM COMPANIA A ACACCA COMPANIA CANCAL COMPANIA CANCAL COMPANIA CANCAL COMPANIA CANCAL	0.5.0
	AGACCNAACT TGCTCTAGCC CTTTCCAGCC GCTGTTGTTA AACTGACCTC	250
25	GTAGGGCNTG AGGGAGGT	268
23	GINGGENIG NGGONGGI	200
	(2) INFORMATION FOR SEQ ID :390:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 177 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :390:	
•		
	GTCAGAGGCA GCCCATCCAG CACGTGCTAG GTGTTCCCAT ACGCACAGGA	. 50
40	·	•
	GAGGCGAGCT AGCCAGCCAA GGCGGCAGG CGGGGAGGCC CTCTAGCTGT	100

	TTGCCTCACC TGTGGGGCCC CAGCAGGGAG GAGTCACCAG CCTAGAGGGG	150
	CCAGGTATAC ACCTTANAGA GGATGAC	177
	CCAGGIAIAC ACCITAMAGA COMICHO	
5	(2) INFORMATION FOR SEQ ID :391:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 139 base pairs	•
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :391:	
	GCTCCACTTC CCACATAANA CNAGACCTCT CACAAAAGAG TTCACTGATA	50
	TGTGAATGCA GCTTTCTCCC CATGGTAGCC AGGACAGGGT GCACATTAAG	100
20	GCAACCCCAA AAACACCTCT TNCTGNCTGC CTCTGCAAA	139
	(2) INFORMATION FOR SEQ ID :392:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 259 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :392:	
	,,	
35	GAGGAGCTGC CCTCAAGGTC GTGCGTCTGA AGCCTACAAG AAAGTTTGCC	. 50
	TATCTGGGGC GCCTGGCTCA CGAGGTTGGC TGGAAGTACC AGGCAGTGAC	100
	AGCCACCTG GAGGAGAAGA GGAAAGAAA AGCCAAGATC CACTACCGGA	150
40	AGAAGAAGCA GCTCATGAGG CTACGGAAAC AGGCCGAGAA GAACGCGGAG	200

•	AAGAAATTG ACAAATAATA GAGGTCCTCA AGCCCACGGA CTCCTGGTCT	. 25
	GAGCCCAAT	25
5	(2) INFORMATION FOR SEQ ID :393:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 189 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :393:	
	AAAGATCATC AGTTTGGAAG GTACTGGTCC AATTTATCTA GGAAGTATCT	5
	CTTGGAGTTT CAGAAATGCT AGCTTGGACA ACTGAAAAGT CACATCACAG	10
20	CTGGCATTCT GGGGGCTACC AAAACACCCC TCNNGGAGTA GAAGCTGCTG	15
	GAAGGCAGGC CTGAGCCATT CACCACGGAC AGGAAGAGC	18
25	(2) INFORMATION FOR SEQ ID :394:	•
	(i) SEQUENCE CHARACTERISTICS:	٠
	(A) LENGTH: 97 base pairs	
,	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :394:	٠
	AGAAGGGGAG GTCGAAGAAA TGTGGCTGAT CATAAGAAAG GAGCAAAGAA	5
40	AGCTAGAATT GAAGAANNNN GAAAGAAACA GAGGACAAAA AAACAGA	9
-10		

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 244 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

	·	
		٠.
	(xi) SEQUENCE DESCRIPTION: SEQ ID :395:	
10		
	AAGAGGGGCT AAGACCCAAG TCATCCTCCA CTTTCGTTTT GTTATATTTC	50
	COMMINICAL COORDINATION OFFICE COMMINICAL CAR OFFICE AND A MINICAL CO	100
	GCTTAGAATT GCCTCTTCTT CTCCACTTCA GAACTGCCTC AAAATTGACC	100
15	CCCTTGACTG ATTTATTGTC GTCAAAAGCA TGTTCCTCTA TCTTTTNNNN	150
	TORGACGATC CGCTGCCTTT CTACATCTGA GAATCTTGTC AAGCATGGAT	200
•		24/
20	AAACTTGNTT TTATGTTGCA TATTTTNACG GCTTCAACTT GAGT	244
	(2) INFORMATION FOR SEQ ID :396:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 185 base pairs	
25	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :396:	
	TAATATCGCC ATGTAATGGT ATACATTGTA AGGCTTATGT CACTAAAGAT	. 50
35	TTTTATTCTG ATCTTTCCAT AATAAAGGTC ATATGATACT GTATAGACAA	100
	GCTTTGCAGT GAAGTATAGT AGCAATAATT TTCGTACCTG ATCAAGTTTA	150
	TTGCAGCCTT TCTTTTCCGT TTCTTTTNTG AAGGG	18:
40	11GCAGCCII ICIIIICCGI IICIIIINIG AAGGG	16:
	(2) INFORMATION FOR SEQ ID :397:	
	· · · · · · · · · · · · · · · · · · ·	

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(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 218 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :397:	
10	GGACACATCC ACCCAGTGAA CTGGACTGTG GCCATGACCC AGGGTATCAG	50
	CTCCAAACTC TGCCAGGGCT GAGAGACACA TGAAGGAAGA TGATGGGAGG	100
15	AAAAGCCCAG GAGAAGTCCA CCAGGGACCA GCCCAGCCTG TATACTTGCC	150
·	ACTTACCACC AGGACTCCTT GNTCTGCTCT GGCAAGAGAC TCTTGTCTGA	200
20	ACACTGCTTA TCTGACCC	218
20	(2) INFORMATION FOR SEQ ID :398:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 250 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :398:	
	GGAAGCAAAA AAACAAAACT AAGCTCGAAT TTGCTTCCAA ACCTGTAGAT	. 50
35	TGCATCTAAC CANGTGTCCC TATGCACCTC AGAGTACTGG AATACGAACC	10
	CAGCGAGACC TTGTCCCCTC CCATTTTGCT GNACTTTTGT TGGTGAAAAT	15
40	GAGAATGAGT TNATCCCTAC NTACTTAGTT TAATGCATTT GACCCCAGAA	20
	AACCCCAGTA CCTTTNNACA ATGACCCAAC CANTACCTAC CATCGGCCAG	25

100

150

200

250

278

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20

25

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40

21:

(2) INFORMATION FOR SEQ ID :399:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 278 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear
(xi) SEQUENCE DESCRIPTION: SEQ ID :399:
TCACTTGATT CATCCGTCGC GGGATTTGGG AGCACTAGCA ACATAATCAA
CACACTCCTA CAATCTTAGG CTTCACATGT GCTGATGATG ATGAAACCAA
CTCTGCCCCA ATCATCTCCC CTTCTNTTAG GGTCTTACTA CATATCGCAA
CAGAAGATAA TATTGAGGTG AAGAGGGTAA CATGAAGTTT GGCACTACCC
TGAAGAACTG TAGGCATCTC TTGGAATGTG CTAAGGAACT TGATGTCCAA
ATAATGAGAT TAAATTTATG TTTCGAGT

(2) INFORMATION FOR SEQ ID :400:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 207 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

35 (xi) SEQUENCE DESCRIPTION: SEQ ID :400:

GGCCAAACTC ACAGGAGCCT AGGCACAGAG CACTGAACAC TGGCTCTGCA 50

GCGGGAAGGA ATTAGAGCCT TCTGCTTTTG CACCTGCTTT GAGTTAGGAA 100

GCAAGCTCTC TTCCTTGCCA GACTTCCCTT TGGGGCAGGA CACTTTTTA 150

••	TACNCTGAGG CAAGGCAAAC AGTCATAGAA CAGTTATTAA ACAATANAAA	200
	ATGTGTT	207
5	(2) INFORMATION FOR SEQ ID :401:	•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 217 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :401:	
	GAGGCATGGC CACATTCCAA GAAATGGAAT AAGGAGTGGG ACAGCAGGCA	50
	GGGGGCCAGC CTGGGGCCTG GGCCTTTTAA TCTAAGGACT GGGGAGAACC	100
20	AAGGGACCTT AGAGGTCCTC CAGTCCTCCC CATATNNAAA GAGGGAGAAC	150
	AAGCCTGGAG AGGAGGCTAC CTTAAGACCC TAAGAAGAAT TTAGCAATCG	200
25	NTTCTCCAAA GATAGCC	217
	(2) INFORMATION FOR SEQ ID :402:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 225 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :402:	
	TTTACAATAG ATTTCACCTT CANTTTAGTC AGAGTTGTTG ATTCAAGACT	50
40	CTTCCCACAC TCGCACATCG AAACATTTTT GTGCCAGGGC TTTCCAGCTC	100

	CAATTATCTT CTCGACAGCA TATACAGAAT CCCCACATCT GGAACACTTC	150
	TCAGCACCTC CATANNTTGA GCAAATTTAG AAGTGTTTGG ATTTGTTGTA	200
5	GGCCTGTGAG GCTGAACACT CTCTG	225
	(2) INFORMATION FOR SEQ ID :403:	
	(i) SEQUENCE CHARACTERISTICS:	•
10	(A) LENGTH: 95 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
12		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :403:	
	AGAAGGGGCA TACTCGCTGG AGACCTGGTG CCTCTATCCA CTGNACGCTG	50
2Ó		
	ACTGNGGCTT CCACTGCGCC CGTGTACNTT ATCGAAGCTA CAGAT	95
	(2) INFORMATION FOR SEQ ID :404:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 239 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :404:	
35	AGGAAAAATT GACATTACTT GTTAGAAGAG CAACTCTGAA AGAAAACAAG	50
	CAAATTCCAA AACAGAAAAG ATTCACAATN NAAAGGTGCA TACATTAAAG	100
		4.54
40	GGCCACACTG TGTAATACTG TGCCAACTTA TGCGAGTCTC ATTGTTCAGG	150
	ATGAAATGTG AGATTGTAGT TTGAATGCTA TAAGCAGGTT CCAAGATACC	200

	CCAAATGACT GTAAGCCAGA CINGAAGCAT GTCAAAAAG	23:
	(2) INFORMATION FOR SEQ ID :405:	
5	(i) SEQUENCE CHARACTERISTICS:	
5	(A) LENGTH: 189 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :405:	
15	GGCTATTATT CTAAGTGAAG TAACTCAGGA ATGGAAAACC AAACGTTGTA	50
	TGTTCTCACT GATCATTGAG AGCTAAGCTA TGAGGACTCA AAGGCATAAG	100
20	AATGATACAA TAGACTTTGG GACTTGGGAG GAAGAGCGGG AGTGGGGCGA	150
	GGGATAAAAG ACTACAAATA TGTGCAGTGT TTACTGCTC	189
	(2) INFORMATION FOR SEQ ID :406:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 75 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	,
30	(5) 101020011 1111012	
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :406:	
35	CACCATCCTC CAAGTAAATC CCCCCTTAGG AAAGTAAGGG AAAAGACCCC	50
	TTATAGCCCT GAGCTCCCCC TTGGA	75
40	(2) INFORMATION FOR SEQ ID :407:	
40	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 190 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear		
5			
	(xi) SEQUENCE DESCRIPTION: SEQ ID :407	:	
	TATTCATCCA GCAGTGTTGC TCAGCTCCTA CCTCTGTGCC	AGGGCAGCAT	50
10	TTTCATATCT AAGATCAATT CCCTCTTTTA GCACAGCCTG	GGGAGGGNGT	100
	CATTGTTCTC CTCGTCCATC AGATCTCAGA GGCTCAGAGA	CTGCAAGCTG	150
15	CTTGCCCAAG TCACACAGCT AGTGAAGCCA GAGCAGTTTC		190
	(2) INFORMATION FOR SEQ ID :408:		
•	(i) SEQUENCE CHARACTERISTICS:		
20	(A) LENGTH: 194 base pairs		
	(B) TYPE: nucleic acid	•	
	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
25			
	(xi) SEQUENCE DESCRIPTION: SEQ ID: :408	:	
30	GAAGACATGG CGCCCTAACA CTTCGAGACC TGCTGNTAAA	TTAAAAGCTA	50
	TTTTTCATTA AACCACCATT TCCTCCACCT ATTGGAGTCA	AATATGAAAG	100
	CTGTCGATGA AGCCTGNCTG GCTGCACAAG TTNGACTGNG	TCTGAATAAG	150
35	CACTTTCATC ATGGACTAAG AATCCTTGGT GTGGNCNTGA	TCTT	194
	(2) INFORMATION FOR SEQ ID :409:		
	(i) SEQUENCE CHARACTERISTICS:		
40	(A) LENGTH: 97 base pairs		
	(B) TYPE: nucleic acid	,	
•	(C) STRANDEDNESS: double		

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :409:	
	GCAGCACAAG AGTCATCCAT GGATACAGTT CCAATCATTA TAACCACTTC	50
	TAAAACAAGA TCATCTTCTG CAGCACCTGG TTTTAGTTTA TCCTTGA	. 97
10	(2) INFORMATION FOR SEQ ID :410:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 155 base pairs	
15	(B) TYPE: nucleic acid	
٠	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
•		
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :410:	
	TTTGAGCTCC TGGACCCTTC TTTGCCTACA CTGGCCTTCC TCTCGGAGGG	50
25	ACAAGGAAGC TGGCCTCCCT TTACTCTACC NTTNNTTNTG GTCCAGGGCC	100
	AGCTCTTCCG AGGCTCCAGC CTGCTTTTCG CCGGTGTCAT CAGATCATGC	150
	TTTGC	155
30	TITGE	
	(2) INFORMATION FOR SEQ ID :411:	*
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 249 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :411:

		AACGAAGNGT TCCTGAATAC CACAGCCTGC TGGGAAATGA CTAGGCGGTA	50
		AGGTTCTGCC ATGCCTGTGA CCCACCATGG ACATACTGGA CCTTAATTCC	100
5		TCTGCTTCTG TGCTCCCTCC TGAGAACCCT TTATGAGCCT GATTCCTCAG	150
		TCTCACCAGA ATTCTGGATC ACCCAAGAGG AAAAGACTGC CAGTTCTAGA	200
10		TTCCTCTATA GGGAGACCTG GATTGTTGAC CAGGTGAGAA GCCAATGGT	249
10		(2) INFORMATION FOR SEQ ID :412:	
		(i) SEQUENCE CHARACTERISTICS:	•
		(A) LENGTH: 143 base pairs	
15		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
. 20			
		(xi) SEQUENCE DESCRIPTION: SEQ ID :412:	
		AGAAGGAGAC AAAACACCTC CTCTGTAATA GTACCTCGAA TGGATTCAGC	50
25		TTTACTCCTC TATAACTCAT CTTCACACCN GCATATTTAA ACAAACTAAC	100
	-	AAAATGAAAT ACTAATAGTA AAAAGGCTGA CCCATGTGGC TTT	143
30		(2) INFORMATION FOR SEQ ID :413:	·
50		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 256 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
35		(D) TOPOLOGY: linear	
		(b) Islands. Illical	
	,		
		(xi) SEQUENCE DESCRIPTION: SEQ ID :413:	
40			
		GGGTCCCCC ATTCACGTAC TCCATCACAA AGTACAGGCG GTCCATGGTC	5.0

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•	IGGANGCAGG AGIGGAGCIG ICAGGAAGGG CGGCIICCCG GGCAGGCCAA	100
	CACCCACTTC TCCACCATAG TGCACTCCAC GTCATCATCT GATCACAACG	150
5	TCCTTCTTCA GGATCTTCAC AGCATAGAGC TCATCTGTGC CTTTCGTTCT	200
	GAAAGCATGA CCTTGCCAAA GCTGCCTTTC CCCAGCACCA TTAGGAAGTT	250
	AAAATC	256
10		
	(2) INFORMATION FOR SEQ ID :414:	•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 87 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :414:	
	TCGCAAAAGA AGNGTACCAT AACTCCTATT TCNAATGGCT GATTGTAGTA	50
25	GCACTGGAAG TTTATCAAAA CCCAGGTGTA AATATGC	87
	(2) INFORMATION FOR SEQ ID :415:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 247 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :415:	
•		
	AGAGGGGGAC CAATCTAACC ATCGCTCTTC CAGTCCTACC AGCACACTCT	50
40		•
	TGCAGCGCCA TNCCACTCCC TGAGCTCAGG ATCCTAGCCC GCCCGCCCGC	100

	•*	GGATGCTAGT NNNCTCCACC CTNCCCACCT GTCATACCTG TGTANTACAC	150
		ACCCACCCGT ATCACGCAGG ACATGAACCA GCACCACTAA GGCCCCGGNG	200
. 5		CAGTGTTCTG NNNTTCTTCT CTANCTGTCT GCCCTGAGTC CCGGACC	247
		(2) INFORMATION FOR SEQ ID :416:	
		(i) SEQUENCE CHARACTERISTICS:	
10		(A) LENGTH: 162 base pairs	٠.
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
15			
		(xi) SEQUENCE DESCRIPTION: SEQ ID :416:	• "
		TCTAGCACAC AGCTGCGCTC ACAAAAACTG CGCGACTTGT TAGAACTAAT	50
20		TOTAGONOMO AGGIGGGIC MONANAMOTO COCCACITOT INCIMOTALIT	50
20		TGAGTGGAGC CTGCAGGTGA GGGGAGGGAG GGGCTGCAGG TCAGGTAAGA	100
		TCTGGAAGAC AACGCACACT TGAAGGGCAG GGGACTCTAA GCAGGGATTT	150
25		ACATTGAAAG GA	162
		(2) INFORMATION FOR SEQ ID :417:	
		(i) SEQUENCE CHARACTERISTICS:	
30		(A) LENGTH: 109 base pairs	
30	•	(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
•		(D) TOPOLOGY: linear	
		(5) 10103001. 12.1012	
35			
55			
		(xi) SEQUENCE DESCRIPTION: SEQ ID :417:	
		CAGAAGAAGG AGAACTCATG ATTCCAGAGA GCTTTGGGGC TTATTTTAA	50
40			<u></u>
		GTACTTAGCA AAATATTTGT TTTNCGTGAT TTAGCTTGTC ATTAAACNAA	. 100

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150

	GAGCTACTG	109
	(2) INFORMATION FOR SEQ ID :418:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 202 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :418:	
15	GGATGTAAAT TATATGTTGT TTAAATTTTT CCAGCATCTG AAAACCTTAT	50
•		•
	CTGCTAGACA ATGCAAGATT CACACAGAGT TATCTGGGAT TCTGATTTTT	100
		150
20	TAAATAGTAC ATATCATTAA ACCATTCNTT CTAAANGTAA GAAGAGCAGA	150
20	AAAAATCTTA TAAGATTATC AGATTTTCCT AATGACACAG AAATGNAAGA	200
	AA	202
25	(2) INFORMATION FOR SEQ ID :419:	
	(i) SEQUENCE CHARACTERISTICS:	
·	(A) LENGTH: 152 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :419:	
	TAGCAAATGT GGATTACAAG CAAATACAAC AAGTCGTGCC CCTCCAACCC	50
	ACCACAAACT TCTAAACGCC ACTCAGCAGA TGCATAGGAT TCGTTACACG	100
40		

CAACGATTGA AATAAAAATA AAAGCTNCAA ATGCAATACC CANACTAGCC

222

	. •	TA		152
		(2) INFORMATION FOR SEQ ID :420:		•
· 5		(i) SEQUENCE CHARACTERISTICS:	•	
		(A) LENGTH: 218 base pairs		
٠		(B) TYPE: nucleic acid		
		(C) STRANDEDNESS: double		
		(D) TOPOLOGY: linear		
10				•
		(xi) SEQUENCE DESCRIPTION: SEQ ID	:420:	
15		CAGCCCTACA CTCGCCCGCG CCATGGCCTC TGTCTC	CGAG CTCGCCTGCA	50
		·		
		TCTACTCGGC CCTCATTCTG CACACGATGA GGTGAC	AGTC ACGAAGGATA	100
			•	
		AGATCAATGC CCTCATTAAA GCAGCCGGTG TAAATG	TTGA GCCTTTTTGG	150
20				
		CCTGGCTTGT TTGCAAAGGC CCTGGCCAAC GTCAAC	ATTG GGAGCCTCAT	200
	•	CTGCAATGTA GGGGCCGG		218
25		(2) INFORMATION FOR SEQ ID :421:		
		(i) SEQUENCE CHARACTERISTICS:		
		(A) LENGTH: 237 base pairs		
		(B) TYPE: nucleic acid		
30		(C) STRANDEDNESS: double		
		(D) TOPOLOGY: linear		
• •				
•				•
35		(xi) SEQUENCE DESCRIPTION: SEQ ID	:421:	
			•	
		GATGCCAATG TTTCATCCAC CGGCTGCACA GGCACA	AACT CCCCCACCCA	50
			•	
		GGACGACTGT GATGAGGTGG CCCTCCCTGT CAACCC	TGGT CCCTGGAGTC	100
40				

CCCAGCACCT GGGGCCCTGA CGGTCTCGAT GTCACAGGCG CTTACTGTGC

•	TGCTGGCTGT CCTATGCCAG CCTCACCCAT GTGGGGACCA CGNAAGGCAC	200
•	ACTCCCTCAC CCCGGTGCCG GGCCGTGCGA TCCCCCA	237
5	(2) INFORMATION FOR SEQ ID :422:	
·	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 202 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
,		
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :422:	
	AGGNGTAATA AATACTGCAT CCTTTCCACA ACATAGCAGG AATCTTATAG	50
	GGAAATCCAT ATAGTTTCTG AACATGTATT NATATACTAA GTCTATATTG	100
20	GONNAICCAL MINGIFFCE ANCAIGINI MAINIACIAN GIGINIATIO	100
20	TTTCTTTACG AAGTGTAAAT AAGTGCTGCA CCATACTGTA AACAAAACTC	150
	GAATATTGAC TAAATAAAAT CAAAAGTTCA TCTTGTAGTC ATGTCTTTCT	200
25	cc	202
	(2) INFORMATION FOR SEQ ID :423:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 216 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :423:	
	GGGACACCAT TACCATCCAT TGACATCGCA TTTCCATAGA AATGCCAAAG	5
40	GGGACACCAI INCCAICCAI IGACAICGCA IIICCAIAGA AAIGCCAAAG	
40	AAAGAAGTCC TGGGGTTTTT CATAGAAAGC TCAAAAAGTT CAACCTTTGA	10

	TGCTATCCCC CAGCCCAATA CAAAATACAC AAAAAAGCAA TTATCAAAAT	150
	ACTGACTTCG GTTTCTTTTT CTCTTCAAAT NCCTATAATN GCTTTACATA	200
٠ 5	TTCGTATCAG CACCTA	216
	(2) INFORMATION FOR SEQ ID :424:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 168 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :424:	
•	CGACGAAGGG AGTACTCGCG CTTTGTCTCC CTATCCACAC TTGAGCAAAT	50
20		
	GCTCGCTGGT CTACTGCCAA AACCCATTTC ACCAACCATA TGTCCCTCGC	100
	CCATACCCC TCTCCCTCTC AAACCCTGGG GACAAATTCA AGGACCCAGG	150
25	GGTGCCCTTT TAAAAAAA	168
	(2) INFORMATION FOR SEQ ID :425:	
•		
	(i) SEQUENCE CHARACTERISTICS:	
. 30	(A) LENGTH: 258 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :425:	
	TCGCAGGAGA AGGAGTCGCT TACTATGCAT CCAAAGGCTA CCGTGGTTAC	50
40		
	TCCTATATGA CATTCCAGAT TTTGATGACT AGCACCCACC CCACAGCTGA	100

•	GAGGAGTCAC AGTGGAACTT CCCAGCTTTA AGATATCTAG CAGAAACTAT	150
	AGCTGAGGAC TAAGGAATTC TGCAGCTTGC AGATGTTTAA GAAAATAATG	200
5	GCCAGATTTT TTGGTCCTTC CCAAAGATGT TAAGTGAACC TACAGTTAGC	250
	TAATTAGG	258
	(2) INFORMATION FOR SEQ ID :426:	
10		
	(i) SEQUENCE CHARACTERISTICS:	-
	(A) LENGTH: 275 base pairs	
	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
15 .	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :426:	
20	TCCACATCAT CTCCAAAGCC CATAGGCCGA GAAATGGCAT CTGAGATCTG	50
	CTGGGCCACC TCCTGTTGTT CCGTATGTCA GTCATCAGTT CATCTACCTN	100
25	GTCAATGTCC ATGTCCTGGT AGGCCTTCTT CATGCTTTGN CAGCAAGCTC	150
:	CATGCACGAA GGACTTCTGC ATTGGTAGTG GCATTCTCAA TAGCCTCACG	200
30	CTGAAACTCC AGGGTGGATA ATGCCCCGTC AATTTGTGCC AGCTGCTGTT	250
30	CGAATNNTTT TCTTTCTCGT AAAGC	275
	(2) INFORMATION FOR SEQ ID :427:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 162 base pairs	
	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

(xi) SEQUENCE DESCRIPTION: SEQ ID :427:

50 CTCTGTGCCT CGCTGAGGAA AAATAACTAA AATGGCAAAG AAGATCCTAA 100 GAAGCCGAGA GGCAAAATGT CATCATATGC ATTTTNTGGC AAACTGTCGG GAGGAGCATA AGAAGAAGCA CCAGATGCTT AAGTCAACTN TAAGAGTTTT 150 CTAAGAGTGC TC 162 10 (2) INFORMATION FOR SEQ ID :428: (i) SEQUENCE CHARACTER_STICS: (A) LENGTH: 220 base pairs (B) TYPE: nucleic acid 15 (C) STRANDEDNESS: double (D) TOPOLOGY: linear 20 (xi) SEQUENCE DESCRIPTION: SEQ ID :428: ATGCAGAAAA GGAGTCGTGA GCGTAACACC CTCGCTGCTG GTCATAAAAC 50 100 CCATAGTTCC TGAACTCATC AAAGAACTTA ACTTCCTGAC GCCAGATATC 25 150 TGCCATGCGC GAAGGGNTGA TACCACTCAG GATTATGAAT TTTGTTTAAA 200 GTCGNGTTTA CAATGATTTG NCCTGGACTG AAATTCANGC TGCCTTAAGG 30 220 TGCTGATGAT ATTGAGAAGT (2) INFORMATION FOR SEQ ID :429: (i) SEQUENCE CHARACTERISTICS: 35 (A) LENGTH: 185 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

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227

(xi) SEQUENCE DESCRIPTION: SEQ ID :429:

	GACTCATCTT GCCCAAGAAG AGCCAGGATA TGAGAAGATG GGAGAGGGAA	50
5	GGGGAGGTGT GAAACGTGCT GGTGCTTCCT GTCCTCATGG TGTGATGGCT	100
	GCCCAGGCTG CTCCTTCGAG GCAGGACAGG ATTCCCATGG GAGATATGAG	150
10	GACCATGGTG ATTTCCAGGA CCAGTTATGT CCAGA	185
10	(2) INFORMATION FOR SEQ ID :430:	
	(2)	
,	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 277 base pairs	٠.,
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
. •	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :430:	•
	GGGATGCCCT GACCTGATGG CCCTTGACCA ACATGGTGCT GGAGGAGCAC	50
25	TACCTGGTCG TGGGAGTAGT GGTCATCGTG GACCCAGGGG TGATCCCTAT	100
	CAACTCTTGG GGTGAGAAGC AGCGCATGCA CCTGCGGGAC GCTTCCTGGC	150
	TGACCAGCTG GACCCCATCT AGTCGCCTAC AACAGCGAGC CAGCACACCG	200
30		
	GCCCAGGTGC CGGAGATGAA TGAGCCCCAG CAGTCCAAGG TGTGATGTGG	250
	GAAGACACCG CAGAGCTCAC TTACCAA	277
		•
35	(2) INFORMATION FOR SEQ ID :431:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 125 base pairs	
	(B) TYPE: nucleic acid	

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

	(xi) SEQUENCE DESCRIPTION: SEQ ID :431:	
·	AAAGTGCGCT TGGGCATCCT GCCAGCCTGC CATGTCTTCA TGCGCTGGTC	50
5	GAAGGCAGCC NGGACTATGG CCAGGAGGCG AATGTAGTCA CTCAGGAGCT	100
	CAGCAAGGAG GAAGAAGTCA TTGTT	125
10	(2) INFORMATION FOR SEQ ID :432:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 222 base pairs	
	(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :432:	
	GCCTAACTGT CAAAGCACAG AAAAGTTAAC AAAGGGTGGG ACTCGCCATT	50
25	TCGAAATAGC ACATTTTAG CAATAGGCTC TCTACACTAG AGAGCCAGTA	100
	GACTGATATT CTTTAATGCC AGTTTCCTAG TTAATCGTAA AGATAGACAC	150
	AATTCCCCCC TTTATAAAAG CTTCTGTCGT TTCACATAAT GACTTTAACT	200
30	ANAANGGAAA TGGGGCAGGA CA	222
	(2) INFORMATION FOR SEQ ID :433:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 213 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :433:

	CCATGNCGGC CCCCAGGTCC TCGATCTTTT CGAGCTGACT TCTCATGGCT	50
	CGATTTCCTG GTGCTTGGTT TGGTAGCTTC AAGCTGGGAT TCGAGGGTCC	100
5	CCGACTNTTC CACCATACAG GACCCATCGA GGAGGCATGT TCTGGTCTNT	150
	TGGATCCACT GGTGGAAGGG TTGCGCGCTG GNCAAACTGT TGGTNTAACT	200
	NGNCGTTTCC TCT	213
10	(2) INFORMATION FOR SEQ ID :434:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 221 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
•		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :434:	
	CCATGNCGGC CCCCAGGTCC TCGATCTTTT CGAGCTGACT TCTCATGGCT	50
25	CGATTTCCTG GTGCTTGGTT TGGTAGCTTC AAGCTGGGAT TCGAGGGTCC	100
	CCGACTNTTC CACCATACAG GACCCATCGA GGAGGCATGT TCTGGTCTNT	150
30	TGGATCCACT GGTGGAAGGG TTGCGCGCTG GNCAAACTGT TGGTNTAACT	200
	NGNCGTTTCC TCTGCCGGTG T	221
	(2) INFORMATION FOR SEQ ID :435:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 70 base pairs	
	(B) TYPE: nucleic acid	
٠	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

100

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230

		(xi) SEQUENCE DESCRIPTION: SEQ ID :435:	. • •
	ACAC	CTTGATA CTATGCATCA AAGGACGTGG AGAACTAGAG CGGGCTACAT	50
5	TAGT	TATATTT TCGTTGTCAG	70
	(2)	INFORMATION FOR SEQ ID :436:	
	-	(i) SEQUENCE CHARACTERISTICS:	
10		(A) LENGTH: 163 base pairs	•
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
15			
		(xi) SEQUENCE DESCRIPTION: SEQ ID :436:	
•			
20	AGTA	ACGCAAT GCTTTCTTAC AGTAAGCAAG AGCTCCTCTG TAATCCTTCT	50
20	CGTI	IGAAGGA AATGCAAGCT TTACCAAGAA GGGCTGGAAT ATTATTCGGA	100
	GACT	TGATTGA GTACAAAATG AAACTGTGCG TCAGCTTGAT CCATTTTGTC	150
25	ACCO	CTCAAGT AGG	163
	(2)	INFORMATION FOR SEQ ID :437:	
	*	(i) SEQUENCE CHARACTERISTICS:	
30		(A) LENGTH: 170 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
•		(D) TOPOLOGY: linear	•
35			
,		(xi) SEQUENCE DESCRIPTION: SEQ ID :437:	

TGTGGCTGAT CATAAGAAAG GAGCAAAGAA AGCTAGAATT GAAGAAGATA

AGAAGAAACA GAGGACAAAA AAACAGACGT TAAGGAAGAA GATAAATCCA

••	AGGACAACAG TGGCGAAAAA ACAGATACCA AAGGAACCAA ATCAGAACAG	150
	CTCAGCAACC CCTGAATTTG	170
5	(2) INFORMATION FOR SEQ ID :438:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 187 base pairs	
	(B) TYPE: nucleic acid	•
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		٠.
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :438:	
. •	AGAACTACAG AAACCTGGCC TCCCTGAGTT TATCCTATGG GGGGCACAGG	50
	AAAGAGCCCT GGACCATAGA AACCAAGTAC GAGTAGCAAG AAAACCAAAA	100
20	GGGTGGGAAT GGATCAAAGG TGTGAAAACA GATCTGTCTC GTAACTGTGT	150
	AATCAAGGAA CTAGCACCAC AACAGGAAGA TAACCCA	187
25	(2) INFORMATION FOR SEQ ID :439:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 234 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :439:	
	AAAAGCAACC AGGTTCGAGA AACAATAGTG TATGTGTTCC TATAGGTATG	5(
40	AGTTATTCAN TGTAGATTCG TTTTTCTGCA ATCCTCTGCC GAAATGATNT	100
40	ACACTTACAA TGNNGAATGC CATAGGACAC TACAATCTGA ATCAAAACAG	15

		TCGCGTCTGA AATGNTNGTG TGGTAGACCA CCCCCATTCA	AGCCTTCATA	200
		CTTCGTAAAA ATGCAAATGT TGAAGATCGN NTCT		234
5		(2) INFORMATION FOR SEQ ID :440:		
		(i) SEQUENCE CHARACTERISTICS:	• • • •	•
		(A) LENGTH: 203 base pairs	• • •	
		(B) TYPE: nucleic acid		
10	•	(C) STRANDEDNESS: double		٠.
		(D) TOPOLOGY: linear		
	,		• •	
15		(xi) SEQUENCE DESCRIPTION: SEQ ID :440	:	
		GGACCAGGAA CCTAACTGAG ATAAGTTCAG CTTTCCAGTT	GACACCAAGT	50
20		CATCTAGTCT TCCCGGAGTA GATATAGTTG AGGTACTCCA	TTTCCCAAAA	100
		CAGAGAGCTG ATCCCGGGCT GCAACACCTC CAATAGTCGA	AGCTCCCTTA	150
		ATNAAGGATA TCAATGTATT TCTTAAACGC TTGATGTCGT	TCAAAGTCTG	200
25		TTC		203
.*		(2) INFORMATION FOR SEQ ID :441:		٠
		(i) SEQUENCE CHARACTERISTICS:		
30		(A) LENGTH: 254 base pairs		
30		(B) TYPE: nucleic acid		
		(C) STRANDEDNESS: double		•
		(D) TOPOLOGY: linear		
		(2) 232 2232 2332		
35	•			
		(xi) SEQUENCE DESCRIPTION: SEQ ID :441	.:	
40		GTGATGCACC TGACATCCCC TCACAGGCTC TTGGAGAACT	GTAGTGCAAC	50
4∪		TCACTTAACC GCAATGCTGA GAGCAGAATT CTGGAGTATG	G ATCCAGGGGA	100

233

••	ACGTTTCCCC ACACCACCCG AGCTACTTTA CCAGCGATCA TGATTGTGAT	150
	GGAATAGGCT TATTAAGTTA CACATTTAAA AAGTCATTAG AACATCTCGT	200
5	TCTTGCACAC TAGTGTAGAA AGGTCTTCCA AAGATAAAAG GTGTAGGCCT	250
	GGTT	254
	(2) INFORMATION FOR SEQ ID :442:	
10		·
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 147 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	٠.
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :442:	
20	GGGGNGCTAG CAGTTGGGNG GTGTAGGAGG CATTGCTGAT GATCTTGAGG	50
	CTGTTGTCAT ACTNTTCANG NNNCACACTC ATGACGAACA TGGGGCATAG	100
25	CAAGGGGCGG ANGANGACCG TTTNGNTTCC TTGAAANGAG CCCCAGC	147
·	(2) INFORMATION FOR SEQ ID :443:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 198 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
		_
	(xi) SEQUENCE DESCRIPTION: SEQ ID :443:	•
	GGGGNGCTAG CAGTTGGGNG GTGTAGGAGG CATTGCTGAT GATCTTGAGG	50
40		•

CTGTTGTCAT ACTNTTCANG NNNCACACTC ATGACGAACA TGGGGCATAG

	 CAAGGGGCGG ANGANGACCG TTTNGNTTCC TTGAAANGAG CCCCAGCTNC	150
	TCCGNGNGAG ACGCAGTGGA CTNCGATGNT TAGCNCTAGT NNCCCGCT	198
5	(2) INFORMATION FOR SEQ ID :444:	
	(i) SEQUENCE CHARACTERISTICS:	٠
	(A) LENGTH: 208 base pairs	•
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :444:	
	ATACTACGCT AGGAGAACAA TGTTCCTACA TATTATGGGT AGTGAGACAT	50
20	TATCTGTATA CAGGGACTGT GATTATTTAA AATATGCAGA ACTTATTTCA	100
20	TCTGTGCTTT AGAAATAACT GTATACAGTG TTATAAGTGA AAGAACTCAA	150
	AATAACTAAT ACCAAATATA CACCTATGTA TTAGAATTCA AAAAGCTGCT	200
25	TTCTGTGA	208
	(2) INFORMATION FOR SEQ ID :445:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 168 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :445:	
40	AGCACATTTC ACTACGGGNT ATGTGCATTC TGGGCTTAGT AATGTCAAAT	5
40	CACTCTTCTC TCCAGCTTGG CCATTCCTCA TTCCTTGCGG GCCTGCCCTG	10

•	TAGACCACAG GCTAATGGAA TGTCCCGGTC IGNGTCATCA NATICIGIAA	150
	CCTGNAGCCC CCGCTGAG	168
5	(2) INFORMATION FOR SEQ ID :446:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 243 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		٠.
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :446:	
	AGGCAGAAGG GACGCTACTG ACTTAAGCCA AACCCTGATT GGTGGATAAA	50
	AGGCAGAAGG GACGCIACIG ACIIAAGCCA AACCCIGAII GGIGGAIAAA	50
	GTATTCAGTT GTTCCATTCA TGCCTATCCT TTNTACAGCT CTCGCGACTA	100
20		
	TAACAAACAA CTGATAAAAT AGCATCAGTC CCTCCACCAG GTTGCCCTCA	. 150
•	AGGAAGCCAT GTTTGTGACG ATCCGACCAG TCCCTGACGA TCTCTCTAGA	200
25		
25	CCACCCTGAC CTCGCCGAGA GTGCTGAAGG AGCTATCTAA CCA	243
	(2) INFORMATION FOR SEQ ID :447:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 251 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :447:	
	ONCHOROCCE CHOROLANCIC MANUALINAM CAMPAGGGA COMOTESTA	
40	CAGTCAGGGT CACAGAACAG TATTCAAAAT GATTGCCCAC CTGTTTTAGA	50
40	AATCTAAAAT NNTAAGTAAC TAAGAGCAAA GTGCTATGTG GGTTTTAGAC	100
	ARICIARARI MUIARGIARC IRROBUCARA GIUCINIGIG GGIIIINGAC	100

	••	CATGACTGTT TGTTTGCTCT CCTGCCCTAC CACCAAGCAA AGCAGCAGGG	150
		CTCCTGGGGG AGAGGGATTT CAACCCCCCT GATGGCAGGG GGTGCTCTGG	200
5		GGAGGAGAGA GGAGAGACA GGCTGTTTTG GAAAATATCC AGCACTTTGA	250
		c	251
		(2) INFORMATION FOR SEQ ID :448:	
10			•
		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 253 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
15		(D) TOPOLOGY: linear	
			•
		(xi) SEQUENCE DESCRIPTION: SEQ ID :448:	•
20			
		ACACTCCAGA NCATCCCACT AGAAAAACAA TTNNGCAGGA ACGTGATGGC	50
		AACAATCAGC AGCCAATATT CTCAAGAGTT CCTAATCACC AAAAACATAT	100
25		ACAATNTAGT CTAGAAAAAT AAGTCAATTT CATAAAATAA GTTTTTAGAT	150
			200
-		CGAAAAGCAC CCCCTTCACA GGTACAGAGA TACTGAAAAA TAGTCCCTAA	200
			250
		AAATCTACTC ATAGTTTACG GAGAGAAAGG CATGCCATGT GAGTTACGGA	250
30			
		GTG	253
•		(2) INFORMATION FOR SEQ ID :449:	
35		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 113 base pairs	•
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
40			

(xi) SEQUENCE DESCRIPTION: SEQ ID :449:

				•	
АТАТААААА	GATCCGCATA	ATAAACCAAA	TCAGAAAATA	ATACCTTGTA	50
ATACCTCTGT	AAGAAGCAGA	ATACACCATA	TGTTATTCAC	ATGTATAGGA	100
GTGATAAGAA	AAT				113

(2) INFORMATION FOR SEQ ID :450:

10

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 211 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID :450:

20

25

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TAGCATCCAG	GGGAAGTTAA	TCAATACGCG	AAAAATACTG	AAATTAAAGA	50
GACAAGTAGA	AGAAAATGAA	ATAATCAAGA	GATTGAGAAA	AGTTGCCAGA	100
AAGCTTGGAG	AAAAACCAAG	ATATGTAATT	TTCGCAGAAG	TCAAAGGTAG	150
AAACTATTTG	AGATCAAAGT	CCTATAAACA	AAGTTAAATG	ATTCCAAGAG	200
GTAAATAGGA	G				211

30

(2) INFORMATION FOR SEQ ID :451:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 194 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID :451:

	· · · · · · · · · · · · · · · · · · ·	
	CTCCATTAGC TTTATGGGAC ATACGACGCA TAAAGATACT NTCCCGTGCG	50
	NATTTCACAC NTGNCAGAGC TATAAACCGG TGNATGATGT GATTTTNCTG	100
	WATTERCAC WIGHTAGOOD THIMMIOSOD TOWNSONDED CONTINUES	
· 5	TAGAATGATA TGGCCTGATA TGGAGGCCTC TTAATNGGCT TTTTCAAGCA	150
	TOTAL TOTAL TOTAL TOTAL CONTROL TO THE TOTAL TOT	194
	GCAAAATGGT CTTGNGTGAG TCGTGCCGAG GCTNNNGATC AAAG	174
	(2) INFORMATION FOR SEQ ID :452:	
10		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 168 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :452:	
20		
	ACTTCAAGCT CAACCTATTC TCGTTCTCTT TGTTAGAGGT GTATTGAGGA	50
	TAGCATATTG AGAATATATT CTCTGGTTCA AACCAAAGAT TTTGTGACAT	100
	INGCAINING AGAMININI CICIGGITCA AACCAMBAI IIIGIGACAI	100
25	TAAAACTACT TGAATTTCTA CTTCATAATA GGAGTCAGTC ACTTCTGGGA	150
		168
	CTATAGTGAT GCTTGCAA	100
	(2) INFORMATION FOR SEQ ID :453:	
30		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 220 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(2) 3333333 3333	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :453:	
40		
	CCATTCTTCC CCTACTCACA CACTATACCA CCCCCCACAC GTGAACCAAT	50

••	TGGCCATCTC CAGAAAGTTT AACAAAACCC GACCAGGTTG CCCCCTTCAC	100
	TTTCTTACAA CCTCTTCCCC TTCCCCAGGG GCTCTGCTCC TCACTCCAGA	150
5	TCATCCTTTA GTTTAGAGCT GCGCAGTGAA GTGGATATCA CTGAAGGAGA	200
	TAGGACGCCA GACTACACTG	220
	(2) INFORMATION FOR SEQ ID :454:	• ,
10		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 275 base pairs	
	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	A CONTRACT DESCRIPTION, SEC. ID. ASA.	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :454:	
20	GCCATCCTTG ATGGAAAGA AACTGAAGAG AAAAGACAGC CTGTGGAAGA	50
	AGCTCAAAGG TTCTTTGAAG AAGAAGAGAG AAAATATGAC ATGATATCTT	100
25	TGCTTTTGAG TTCCTCACGC TCTCTGAATN TTATTGGTTG GACATTCCAT	150
	ATGȚAGCATT CTGCTTCAAT ATTATCTATT ATGTGTCTCT CTCTCTCAA	200
30	ATANNTGCCT GTAGGTAAAA GCAAGCTCTG CATATCTGTA CCTCTNGAGA	250
	TAGTTTTGCT TTGTCTTTAG CGGTT	275
	(2) INFORMATION FOR SEQ ID :455:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 270 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		•

(xi) SEQUENCE DESCRIPTION: SEQ	ID	:455:
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		TCGCAGAAGG AGGAACGGGG ACTTTCCATC CCCTGAACCA	AGGCATGTTA	50
5		ACACTTGGCT CCAGCATGTT GTCATCATTC AACCAGAAAT	CGCACAAATG	100
		CTACTGTGCC GGGGTGNAGC CAATTTTCTT AAGTAAGTGC	TGACTTCCTT	150
10		AACANNTATC TNTNTTNTGG CTGTAGGGTG GCTCAGTGGA	ATCCATTTTG	200
10		TTAACACCGA CAATTAGTTG TTTCACACCC AGTGGTAAGC	CAGAAGGGCA	250
		TGCTCTNGGG TCTGCCCATT		270
15		(2) INFORMATION FOR SEQ ID :456:		
		(i) SEQUENCE CHARACTERISTICS:		
		(A) LENGTH: 254 base pairs		
		(B) TYPE: nucleic acid		
20		(C) STRANDEDNESS: double		
		(D) TOPOLOGY: linear		
		(1)		
	•			
25		(xi) SEQUENCE DESCRIPTION: SEQ ID :456	•	
		TCGCAGGAGA AGGAACCTTG ATGATACCAT TATCCTCACT	TAGATGATGC	50
30	·	ACGACCCTG CGCTGGATAC GGCGACGGTT TCTCATTTCG	CCTTTGCCAG	100
,		CTCTCATTCG CTGAGGGGCA TAGACCTTTT GATATCATCC	AGGCTTTAGT	150
		TTCTTAAGGA GCAAAACAGC TTCCTTGNNC TTCTTGTAGC	CTTCAACTTA	200
35		TTTAAACTAC CAAGGAAGTT CAGGAACTTC CTCAANACGA	TGACCTTTAG	250
		ACAT		254

(2) INFORMATION FOR SEQ ID :457:

40 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 236 base pairs

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
·_· .		
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :457:	
	ACACTAACTG TTCCATCCGT TATATTTGCT GTGAGGAAAA TTAAGATTCC	. 50
10	TGTTGTATGG GCTGCACTGT TTCTGGAAGA CTACAGAAAA TCTAACATGG	100
	TTGACACTTC CTGGTAGCCC TTCTGTACAT ACACACACA AACCAAGAGA	150
15	GAAGACAGAG AGAAAATCCT GGTCCAAAAG ATCACATGAC CTTACTAGTG	200
	TTTCCCCAAT GACTGTAATT TATAAACTAA AAATTG	236
20	(2) INFORMATION FOR SEQ ID :458:	· .
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 108 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
·	(xi) SEQUENCE DESCRIPTION: SEQ ID :458:	
30		
	GAGANNNNTT NNGGNAAATG NTTNCGCACT GNAGCTAAGA ANAGNNATGG	50
	NNNTAGGGNG NNAGANGNCN TGAACAGAGA AAGCNTGAGG GCTCTGGGAC	100
35	GCTGGTAT	108
	(2) INFORMATION FOR SEQ ID :459:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 155 base pairs	
	(B) TYPE: nucleic acid	

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :459:	-
	ACCCATGGCA AATAGGAAGA AGCTCAGTAT CGGCTCCTCC CACCATAACC	50
	CCCACTTCTC CCGCCTCCTG GACCATAGTT TCCTCCACCA TACGGTCCCC	100
10	CCATGTTCCT GCTACCACCA AAGTTTCCAC TCTCCATTGG ACCGTAGTTA	150
	GAGGT	155
15	(2) INFORMATION FOR SEQ ID :460:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 169 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :460:	
	TGCTATTTCC CTTTCATAAA GGCACACATT TGATCTTATC TTCTCTTACC	50
	CAACACGCAG TGGCAGTGTG TATTTTCCTT CTCTTTTTTT GTTAAATATT	100
30	CTGGTTTGTG GAGGTTCACA GACATGTGTT AGTATATCCT TGCCTGCATG	150
	TAGTTGTTCA TTACTAGAC	169
35	(2) INFORMATION FOR SEQ ID :461:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 184 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
• •	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :461:	
	ACCNTGTTTA ATTANTGCGC GGGCTCGCCG TTTGCATACA ATGGCTTACT	50
5	CAGTGCTNNC AGGCTGTGAG TNAATAGAGN GTGTATGACT TAATAAGCAT	100
	TTTATCAGCG TACCTTTTTC GCCATGCGCT ACCTGCTATT GATGAAGGCG	150
10	GCTTAGGGCA TCGAAAAACC TAAAAGTCGA GCTT	184
	(2) INFORMATION FOR SEQ ID :462:	-
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 275 base pairs	
٠	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :462:	
25	AGGAACCNTG TTTAATTANT GCGCGGGCTC GCCGTTTGCA TACAATGGCT	50
25	TACTCAGTGC TNNCAGGCTG TGAGTNAATA GAGNGTGTAT GACTTAATAA	100
	GCATTTTATC AGCGTACCTT TTTCGCCATG CGCTACCTGC TATTGATGAA	150
30	GGCGGCTTAG GGCATCGAAA AACCTAAAAG TCGAGCTTNG NNGTGCCGGN	200
•	AACGGCTCTA NANTACTTCT CATTGTAACT AGAGTACCAT ATTCGGCCGT	250
	NNACTGNGTT GTTGGCGACA GATGT	275
35	(2) INFORMATION FOR SEQ ID :463:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 149 base pairs	
40	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(-,	

(D) TOPOLOGY: linear

	(xi) SEQUENCE DESCRIPTION: SEQ ID :463:	
5	AATTCACTAT GCGTGGCCGC CACAGCTATN CTTGTCCTCC TGGATCCTGA	50
	ACCTTGNAAG CTGCACTAAT GAGTTCAACG GGAGTGCTCT GGGCCCAGGT	100
	GTCAGCTGTA GCAATGCCCC NGCTGCAACT GAAGGNGCCA GCAATGCTA	149
.0 ,	(2) INFORMATION FOR SEQ ID :464:	
•	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 179 base pairs	
.5	(B) TYPE: nucleic acid	
. .	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :464:	
	ATCATCAGCA GTGTTGCTCA GCTCCTACCT CTGTGCCAGG GCAGCATTTT	50
25	CATATCCAAG ATCAATTCCC TCTCTCAGCA CAGCCTGGGA GGGGGTCATT	100
	GTTCTCCTCG TCCATCAGAT CTCAGAGGCT CAGAGACTGC AAGCTGCTTG	150
30	CCCAAGTCAC ACAGCTAGTG AAGACCAGA	179
	(2) INFORMATION FOR SEQ ID :465:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 156 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :465:

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•	CTACCTCTGT GCCAGGGCAG CATTTTCATA TCCAAGATCA ATTCCCTCTC	50
	TCAGCACAGC CTGGGAGGGG GTCATTGTTC TCCTCGTCCA TCAGATCTCA	100
5	GAGGCTCAGA GACTGCAAGC TGCTTGCCCA AGTCACACAG CTAGTGAAGA	- 150
	CCAGAG	156
	(2) INFORMATION FOR SEQ ID :466:	
10		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 186 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :466:	
20		
	ACATCCCTGG AAGGAGGGCC TGAGGGCCAG GGAGGGAACA AGGCAGGAGA	50
	CTGCTGGTTC TGGTTTTGGC CACCTCACCC TTGGCCACGT CCCCTCCGGC	100
25	TAAGCCACAG CACAAAGCAG AGCCAGGCTC TGGAGGCCCCA GGGCCTCACC	150
	ACTCCCCTNT GTCCCCCCAG CAGGGGGACA AAACAG	186
	(2) INFORMATION FOR SEQ ID :467:	
30		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 87 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :467:	
40		

TNNNGATGAN TATANAAGCA TCATNGACGG TATTTCCCNG TCTTGNANTT

	••	TNATCGAGAN TTTANTCTAG TAANTATATT AATNINT	87
		(2) INFORMATION FOR SEQ ID :468:	
. 5		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 187 base pairs	
		(B) TYPE: nucleic acid	
٠		(C) STRANDEDNESS: double	٠
		(D) TOPOLOGY: linear	
10		(b) Torobodi. Timear	
10	*		
		(xi) SEQUENCE DESCRIPTION: SEQ ID :468:	
15		ACTAGAAGTA CAGCATCCTG CTGCAAAAAT GATTGTAATG GCTTCTCATA	50
		TGCAAGAGCA AGAAGCCGAG ATGACACAAA CTTTGCCTGG TATTTGTTGG	100
•			
20		AGCTCTCCTG GAATCACTGA AGAACTTCTG AGGATCGGCC TGTCAGTTTT	150
20		AGAGGTCATA GAAGGTCATG AAATAGCCTG CAGAAAA	187
		(2) INFORMATION FOR SEQ ID :469:	
25		(i) SEQUENCE CHARACTERISTICS:	•
	•	(A) LENGTH: 256 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
	-	(D) TOPOLOGY: linear	
30			
		(xi) SEQUENCE DESCRIPTION: SEQ ID :469:	
35		AGGGCACCAT TACCATCCAT CTGACATCGC ATTTCCATAG AAATGCCAAA	50
		GAAAGAAGGT CCTGGGGTTT TTCATAGAAA GCTCAAAAAG TTCAACCTTT	100
,	,	GATGCTATCC CCCAGCCCAA TACAAAATAC ACAGAAAAAG CAATTATTAA	150
40		ACATCGGCTT CGTTTCTTTT TCNCCTTTGA ATNTTAATGT TTACATACTA	200

. ••	GTGTGCAGCA CCTACTTCTT NATCGCCGTG AACTGAAATC TAGATTTTAA	250
	ACTGAA	256
5	(2) INFORMATION FOR SEQ ID :470:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 109 base pairs	•
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		٠.
15 .	(xi) SEQUENCE DESCRIPTION: SEQ ID :470:	
. •	CTCAAAACGA CAATTCTGTG CCTGGGGGAT CTGACCTGGT GAGGTAGCCT	50
20	GAAGTCTGAA TGGAGCCCAT AGTCGAAAAC AACCTAAGAA TCTCTCAGAA	100
	GAGGGTTTG	109
	(2) INFORMATION FOR SEQ ID :471:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 139 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		• .
	(xi) SEQUENCE DESCRIPTION: SEQ ID :471:	
35	GCGGCAGTAT ACAGAAGCCA TATCAGTTGG GAAAAACTTT ATCAATCATA	50
	GAGCCTTTTG AAGAAAATT TGCCAAGCGT GGTTTTTTGC TTGNAGACCT	100
40	ATATATATA CCTACAGGCT GAGAAAGCTT TGNATTTCT	139
40	(2) INFORMATION FOR SEQ ID :472:	

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(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 262 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :472:	
10	TCGCAGGAGA AGGAATGTTC CCAATAGGAA CGCCTGTAGA CTGTTCAGAA	50
	GAAATGCCCA AATGAGCCAG ATGAGAAGGC TGAGGGCAGG GCTGCTTTTG	100
15	GCTCTGAGGA CTATAGATTT ATCCTCTAGG TGATGAGGGA CTATTAACGG	150
	CTGGTGAGTC TGGAGAACTG AACAGTGGAA GCTCTATTTT AGATTCACGT	200
20	GGCAGTAGAG GATAGAGGTG TTTGGAAGCG GTGGGCAGTT GCAAGCTATA	250
20	TGGGAGACAT TT	26
	(2) INFORMATION FOR SEQ ID :473:	
25	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 189 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :473:	
35	ACAGAAGGAC TTTGTCTCTT TAGCTTGTTT AGCTCAATGA ACATTATCTC	. 5
	GGCAAATGAC TCTGCTTTCT CGAAGGTCCT TCTCCGCTCC AGGTTTACTT	10
	GCATCTCTCA TACTTNNTAC AGCCAACATG AACACTCTAT GTATTTTCTA	15
40	AGCTTTCNTC TGTTCAAGAA CTTTGAATTT AAAACGTCT	18

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	(2) INFORMATION FOR SEQ ID :474:	
	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 166 base pairs	
5	(B) TYPE: nucleic acid	
J	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	. ,
	(2) 20102001 0211000	
io		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :474:	•
	TNCGTGCCTA GCAAACTTAA ACTCGAACGC ACGTAATAGT GCTCATAATT	50
15	CTNTNAAGGA CTTTAAACTT TACTCNGTAT GCTNTNTTGA TGACTCTAGC	100
	AGCCTCGCTA ACCTAGTTTA CCCCACTGTC CCCACCGGCG AACTNTTTGT	150
	GTTAGTACGC GNGTTA	166
20		
	(2) INFORMATION FOR SEQ ID :475:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 109 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
•		
30		
· v	(xi) SEQUENCE DESCRIPTION: SEQ ID :475:	
	TTTTTTTTA GTAACACTAA AGAGCTGTAA AGAACATTGA AGGTGGTCAT	50
35	TCCTTCAAAA CTGTGTTTTG ACCACAAG GTGGGCATTA ACAAACAAAT	100
	TCAACTTAA	109
	(2) INFORMATION FOR SEQ ID :476:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 131 base pairs

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double
	(D) TOPOLOGY: linear
5	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :476:
	TCTGGGCGGA AGGTGGTGCG GTGAAAGGTG CAGGGACAGA CTGGGTTAGA
10	
	GGCCACTCTT GGTCTTATCC TCCATGGCCA CAACAGAGGT GACAAATACA
	CGGGTCACTC AGTTACGTTT AGCCACAGCC T
15	(2) INFORMATION FOR SEQ ID :477:
	() CROUDING CUADAGERICATOS.
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 265 base pairs
	(B) TYPE: nucleic acid
20	(C) STRANDEDNESS: double
	(D) TOPOLOGY: linear
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :477:
	ACATGGATAG GTGTATGCAT ACTACGGCTA AGGAGAAACA ATGTTCCTAC
20	ATATATGGGT AGTGAGAACA TTATCTGTAT AACAGGGAAC TGTGATTATT
30	TAAAAATATG CAGAACTTAT TTCATCTGTG CTTTAGAAAT AACTGTATAC
	TANAMATATE CAGARCTIAT TICATCIETE CITTAGAAAT AACTETATAC
	AGTGTTATAA GTTGAAAAGA ACTCAAAATA ACTAATACAA ATATACACTA
	ACTOTINIAN CITCULANCO NOTCHARITIN NOTCHARIAN MINISTRA
35	CGTATTAGAA TTCAAAAAAG CTGCTTTCTG TGAAGTCAAT CAGCTATATT
	AAAAAAGACA CAAAT
•	
	(2) INFORMATION FOR SEQ ID :478:
40	· · · ·
	(i) SEQUENCE CHARACTERISTICS:
	/A) LENGTH: 182 base pairs

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(B) TYPE: nucleic acid(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :478:	
	AATCTACCAA CCTTAAAGCT CCCGNGATAA AGCTGTATTT CCAAAAGACC	50
10	TGTNTTTATT NGNNGGNGTT NGCTTTCTTT GTCATCTAGA GCCTTGTTGT	100
	ACATGCAATG GGTGGGAGAT AGTGGTACCT ACTGTTGNTT CTNTCTGTGT	150
15	NTTCATCATG GTGTTGTCTA GGTCTCCTGA GG	182
	(2) INFORMATION FOR SEQ ID :479:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 169 base pairs	
	(B) TYPE: nucleic acid	*
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
23		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :479:	
30	AAGCCGTCGG GAGCCGCCGC CGCCATCTGA GGGAGGTACC CTGGAAACCA	50
	CCTTTCACGG TGGGGAAGTG CAGTCGCGGT GGGCAGCTCT GGGGCCACGA	100
	AACGGGAGCC TCTAAATCTT GGTCGGGACT GCTCGCCTGG AGCCGCACTC	150
35	TTGAGTCCGA GGCCATCTT	169
	(2) INFORMATION FOR SEQ ID :480:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 238 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :480:	
	AGATAACGCT CCCATCCCAG GCTAGAGACT CCATCTCTAA TTTNCNCAGT	50
10	CCGTCAATGA GAGGCAGGGA CTGAAATCCC AAGTTCTGTC TCACCGGATA	100
10	TTTTCCAGGA ATGCCTCTCT TCCAAACATC AGCGACATTT AACAGACCCT	150
	GAGCAGCAAA CTTCTGCCCC AGAGGAAAGC AGAAAACCAA TTTATGTAAA	200
15	ATTAGAAGCG ATTTGCTTGA TCCATCACTN GCTTCCAC	238
	(2) INFORMATION FOR SEQ ID :481:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 201 base pairs	
	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :481:	•
30	TCGCAGGAGA AGAAATCAAC CCCTGCTTCT CAAATCCAGA CAGGCCACAC	50
	TGGCTAGAAC TTCCACCCAG CAGTCCTGCT CCTGCCCGAA GTCTGCAAGC	100
	AAGTGAACCA CATGTCGCTA TGAAAGCACA CAGACAACAG ATTAGGGCAG	150
35	ACCTGGCAAA GATATGCCTG TCTGCCATCT TGGCCCCTGT CTGAGGGAGG	200
	c	201
	(2) INFORMATION FOR SEQ ID :482:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 162 base pairs

٠.	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :482:	
	CGGCTCAGNC TGTTGGCGCG AAGAGAGTCT AACCCAAAAT TGCAAAACTC	. 50
	CCGTTGATTT CCAGGCCCTA CCACACGGCG ATGTCAACTT GTCCTCCAGA	100
	CATGGACGAC TACCAAAGAT CCCAGCTACG AAGCATGGCC TTGCTTAGAA	150
	ACNTTTTTAG AT	162
	(2) INFORMATION FOR SEQ ID :483:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 250 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		·
	(xi) SEQUENCE DESCRIPTION: SEQ ID :483:	
	ATATGAAGGA GGAAATGCTC GTCACCTTCG TGAATACCAA GACCTGCTCA	50
	ATGTTAAGAT GACCCTTGAC ATGAGATTGC CACCTACAGA AGCTGCTGGA	100
	AGGCGAGGAG AGCAGGATTT CTCTGCCTCT TCAAACTCNT NCCTGAACCT	150
		,
	GAGGGAAACT TTGGATTCTC CCTCTGGTCG ATACCCACTC AAAAAGGACA	200
	CTTTTGATTA GGACGGTTGA AACTAGAGAT GAACGGTTAT CAACGAAACT	250
	(2) INFORMATION FOR SEQ ID :484:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 132 base pairs	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

	(D) TOPOLOGI: Timear	
5		
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :484:	
10	AACATTATCT TGACAAACTG AAGAACACTT CAGTTAACAC TACCTCGAAG	50
	AACCATCAAT GACTTGCTTT GAACAGACTA TAAAAGGCAT TCTCAAGGAG	100
•	ATTAGAATGT TAATGCCACT TTGATTAGAT CT	132
15	(2) INFORMATION FOR SEQ ID :485:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 129 base pairs	٠.
	(B) TYPE: nucleic acid	•
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :485:	
	TGTGCGTGGA GACGGTGGAG AGTGGAGCCA TGACCAAGGA CCTGGCGGGC	50
٠	CGCATTCACG GCCTCAGCAA TGTGAAGCTG AACGAGCACT TCTTGAACCC	100
30	ACGGACTTCT CGACACCATC AAGAGCGAC	129
•	(2) INFORMATION FOR SEQ ID :486:	,
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 172 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

	(xi) SEQUENCE DESCRIPTION: SEQ ID :486:	
	TCGCAAGAGG AGACATTCTG ATCATCCTCA CTGGACGCCA CAGGGGCAAG	50
5	AGGGTGGTTT TCCTGAAGCA GCTGGCTAGT GGCTTATTAC TTGTGACTGG	100
	ACCTCTGGTC TCAATCGAGT TCCTCTACGA AGAACACACC AGAAATTTGT	150
	CATTGCACTT CAACCATATC GA	172
10	(2) INFORMATION FOR SEQ ID :487:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 210 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		٠
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :487:	
	ATGCTGCACA CTATGTCTCA CAAACTAAAT GGATCCATTA AAAGTTATGA	50
25	TTTAAAAGGC GACCACCCC AAAAGAAGTC ATAACACTCA AGGGTGTCAA	100
•	TATATACAAC TGTGTAAACA CAACCAATCT ACAACTATAT CAACACAACC	150
	AGCACTCCTC TATGGGCACA GACACACAC CAAAATTGTC CTTGCTTTTC	200
30	TCAGATATAT	210
	(2) INFORMATION FOR SEQ ID :488:	
35	(i) SEQUENCE CHARACTERISTICS:	
5 5	(A) LENGTH: 90 base pairs	
	(B) TYPE: nucleic acid	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

	(xi) S	EQUENCE DESCR	RIPTION: SEQ	ID :488:		
	ACATGGATAG	GCGTATGCAT AC	CTACACTAA GGA	GAAACAA TG	GTCTACAC	50
5	ANACGTAGTG	AGAACATTAT CI	GTATACGG GAP	CTGTGAT		90
	(2) INFORMA	TION FOR SEQ	ID :489:			
	(i) SE	QUENCE CHARAC	CTERISTICS:			•
10	(A) LENGTH: 99	base pairs			
	(B) TYPE: nucl	leic acid		•	
	(C) STRANDEDNI	ESS: double	•		
	(D) TOPOLOGY:	linear			
		•				
15					•	
		•				
	(xi) S	EQUENCE DESCI	RIPTION: SEQ	ID:489:		
	ACCATGAGAC	CTACATCCGA A	rctgaccca ggo	CAAACATA CC	GGGAGCCA	50
20			•			
	TACCGCACTA	NCGGCTCTTC TO	CAAATCTCC TG	JCCACNCA CC	GAGNGCC	99
	(2) INFORM	ATION FOR SEQ	ID :490:			
25	(i) SE	QUENCE CHARA	CTERISTICS:			•
		(A) LENGTH: 1	86 base pairs	5		
		(B) TYPE: nuc.				
.*		(C) STRANDEDN	ESS: double			
		(D) TOPOLOGY:	linear			
30		•				
	·		•		•	
	(xi) \$	SEQUENCE DESC	RIPTION: SEQ	ID :490:		
35	GGAAACCTGG	AGGTGCGCAT C	CTCGAGTGC GA	AGAGAAGG TO	TTCCCCAG	50
	CCCCTCTGG	ACTCCATGCA C	CAAGGTCAT GG	CCAGGAGC TO	TTGGCAGC	100
	TCAGCCCTGC	CGCCCAGAG C	ATGTGGCGG CT	GCTCTCTA CC	AGCCGAGA	150
40	0.0000000000000000000000000000000000000	maa.a	000003380			

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(2)	INFORMATION	FOR	SEQ	ID	:491:

	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 263 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	į.
		•
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :491:	
	AGCCAACTAA GTTCTCTCTT CGTGAAACAC AGGTCCATGA GTCGACACAA	. 50
	ACCOMPLIAN CITCLECT COLONIALIONO NOCIOCALON CITCALIONALION	
	ACACTAATGC AAGAACCATC ACGGAAAACC ACCGCAGCAG CTGAAACTTT	100
	TATAGCCCAT AAAAGGACCA AACAAGTAAG CTGAATGACT GTGAAAATAT	150
	GACCTTCCAG AGCGGCACAT AACAGGATAT CAAATCAGGC TGATGCTTAG	200
	CAGGCTTCAA ATATNATGGT CAAATGACTG GATTACTTAN ATGAGGCAAC	250
	mmos ms mooo and	263
	TTCATATCGG AAA	
	(2) INFORMATION FOR SEQ ID :492:	
	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 159 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
	(
	(xi) SEQUENCE DESCRIPTION: SEQ ID :492:	
	AGAGTGGGGT TAGCTCTGCC TAGCGCTACA CAAGAAAACC TCCCTCCAGT	50
		3.
	AAATNGGTGT GGGNGGTCCG CTTTTGGCCA TCATCGCACC CCCCCGGTCA	100

CTGGGCGTTG TTGCCGGGCA CTTGTTTNNC NGGCTGGGTG TGTACCGTAA

	••	CCGTGGGTC		159
		(2) INFORMATION FOR SEQ ID :493:		
		·		
- 5		(i) SEQUENCE CHARACTERISTICS:		
•		(A) LENGTH: 197 base pairs		
	,	(B) TYPE: nucleic acid		
**		(C) STRANDEDNESS: double		•
		(D) TOPOLOGY: linear	•	
10				
			•	
		(xi) SEQUENCE DESCRIPTION: SEQ ID :49	93:	
15		GGGCAGAGNA AGAACTGTTC CACCAGGTGA ACAGTCCT	AC CTGCTTGGTA	50
		CCATAGTCCC TCAATAAGAT TCAGAGGAAG AAGCTTATC	GA AACTGAAAAT	100
· · ·		CAAATCAAGG TATCGGGAAG AATAATTTCC CCTCGATT	CC ACAGGAGGGA	150
20		AGACCACACA ATATGTNGTG CTGGGGCTCC CCAAGGCC	CT GCCACCT	197
	•	(2) INFORMATION FOR SEQ ID :494:		
25		(i) SEQUENCE CHARACTERISTICS:	•	•
		(A) LENGTH: 188 base pairs	•	
		(B) TYPE: nucleic acid		
•	•	(C) STRANDEDNESS: double		
		(D) TOPOLOGY: linear		
30				
50				
		(xi) SEQUENCE DESCRIPTION: SEQ ID :4	94:	
35		GATGGGGAAG GGCATCCCAA CACAGCCTGT GGATCCTG	GG GCATCTGGAA	50
		GGGCGCACCA TCAGCAGCCT CACCAGCTGT GAGCCTGC	TA TCGGGCCTGC	100
		CCCTCCAATA AAAGTGTGAG AACTCCACTG TGTGCCCT	GT CTTTGGGCAG	150
40	•	CONCECTED TETENETICS CTCTTGAGTN GGTGAGTG	·	188

(2) INFORMATION FOR SEQ ID :495:

	(:) CROUDINGE GUARACHERICEIGE.	
	(i) SEQUENCE CHARACTERISTICS:	
-	(A) LENGTH: 169 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
		•
10.		•
·	(xi) SEQUENCE DESCRIPTION: SEQ ID :495:	
	NON TO NOT COME OF COME OF COME OF THE CARE AND CARE AND CARE OF COME	50
•	ACATGACCAT CCGCATCCGC CTTTATTGAC AATGAGAAGA TGGAGTCCCG	50
1 5	GACGCATCTA TCCCTCTTTG GCCCTTACAG GTTTGCCACG AGAGTGAGAC	100
15	GACGCATCIA TOCCICITIG GCCCTIACAG GITTGCCACG AGAGTGAGAC	100
	COOTTOOTOO ACOACOCAC CONONCTTOO THOTAITCHICO CTCNCCCTNT	150
	GCCTTCCTGG ACCAGGGGAG GGNGNGTTGG TNCTNTGNGC GTGNGGGTNT	150
	GTGGGNGCTG CTGGGGAGG	169
20	GIGGROCIG CIGGGGAGG	. 103
	(2) INFORMATION FOR SEQ ID :496:	
	(2) 1110111111111111111111111111111111111	٠.
	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 172 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
•		
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :496:	
	CAGAGAGAC GTTTCTATGG CTGCTGCTTC TAGGAGTCTC TCGCTCATAG	50
35	AAAAGGCACA CACTGAAAGA GGAAGCAGAT CCCATTGCTG TGGAAGTCCC	100
	ATTGTTAGGA AGCTCTGCTT TTCTGGAGTT CAAATTCGCA TTCATGATGC	150
•		
	TTTAAACCGT CAAGCTGGGT GG	172
40		
	(2) INFORMATION FOR SEQ ID :497:	

260

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 24€ pase pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

10	(xi) SEQUENCE DESCRIPTION: SEQ ID :497:	
	GAGAGTGGGG TTAGCTCTGC CTAGCGCTAC ACAAGAAAAC CTCCCTCCAG	50
	TAAATNGGTG TGGGNGGTCC GCTTTTGGCC ATCATCGCAC CCCCCGGTC	100
15	ACTGGGCGTT GTTGCCGGGC ACTTGTTTNN CNGGCTGGGT GTGTACCGTA	150
	ACCGTGGGTC CTCTGACAAG TGCCTAACTC GGCCCACCCC TTAGGGTGTG	200
	TNTCATCGAA GTGTAGNGAA TGGTGGAACG TTTGTTTGTN GTGTGC	246
20	(2) INFORMATION FOR SEQ ID :498:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 215 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
,	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :498:	
	GCCCCTTTAC CAGCAAGTCC TCTACTCAGA AAGAACTGAC CCACGCAAGT	5
35	CTGGGAGAGT GACTAGTTCA AATGTGCAGG GCTGAAGCTT CCAAACACAG	10
	CCACTATTTT TGTTGTATAT CTTCATCTCA ATGGCGACAT GGCCACTGCC	15
	CAAGGAACTT GTGGCAGGGA TCCCAAGGTG AGGCAGCAAC AGATGTCTGT	20
40	CANADA MACAMA COMMA	. 21

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261

•	(2) INFORMATION FOR SEQ ID :499:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 195 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
. 10		
. 10	(xi) SEQUENCE DESCRIPTION: SEQ ID :499:	
	GATNGCCACA TCTCAACACT ATACNACTCG CTNTTCGAAT TCGCCGTNTT	50
15	AGAACCGCAA GAGACCTTGA TTTAGTCACG CGAGTTCGTC TTCCTGTTCC	100
. •	ACANGAAAAT AAAGCTAGGG AGGTGATTTA TCTATCCGAG AAAAAAGCCG	150
20	GGGACTGGTG GAANNNGAAC AATGNTCTCT NTGTCGTACT ACAAT	195
	(2) INFORMATION FOR SEQ ID :500:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 260 base pairs	
. 25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
·		
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :500:	
	GCGGCCTTGG GGGCACCGGC GTGTCCTGCC CAGTGGGATT AAAAAATAAT	. 50
35	GCTCCCCACA TGGCGGCCT TTGAGGTTCC AGTAAAAATG CTTTCAACAA	100
	ATGGGCAATG CTTGTGTGAT TCACAATCGT GGCATTTAAA GTGCACAAAG	150
·	TACABACCAA TTTATACACA TTCCTTTACC CAACTATAAT CTATACCACC	20

CGCGATGGCA AGTTGATAAA ATGTGACTTA TCTCCTAATA AGTATGGGGG

	GTGGAGCTGT				260
					•
	(2) INFORMATI	ON FOR SEQ ID :501:			
					,
- 5	` ' -	ENCE CHARACTERISTIC		•	•
		LENGTH: 268 base p		• •	
•	• •	TYPE: nucleic acid		. •	
		STRANDEDNESS: doul	ote		
	(D)	TOPOLOGY: linear			•
10		·	•		
					·
		•			
	(xi) SEQ	QUENCE DESCRIPTION:	SEQ ID :501	•	
15	AAAGGCATAG TA	AAAAATAAA ATCTACGTA	A GTAACAATCT	AATACTATAT	50
			·		
	TAAATNCGTT G	CTACAAAGT GTTTTGTTT	C TCTAAAAAGT	AGTTTTTGCA	100
	TATCATTCGA CO	CTCTTCACC CATNTGCTG	G CTTATTTGCT	TTATATACAA	150
20					
	CAGTTAAAAT T	IGTGCACTA AGCTGAGCT	G CCTTCACAAT	GTGGTTCAGA	200
	CAAAATGCAC C	CAAAGAACT ACATGTTAA	G AGAGTTTATG	TCCATGCTCA	250
	•				
25	ACCATGGCTT G	CCCAAAT			268
		500			
	(2) INFORMAT	ION FOR SEQ ID :502	•		
			.		
	` ' -	UENCE CHARACTERISTI			
30	•) LENGTH: 152 base	-		
	•) TYPE: nucleic aci		•	
) STRANDEDNESS: dou	pre		
	(D) TOPOLOGY: linear			•
35		•	•		
			000 TD . F00		
	(xi) SE	QUENCE DESCRIPTION:	SEQ ID :502	:	
	AAAAACTCTA A	TCCAGACTA CAGTTGTCG	GATTCAAGTO	GTGAGTGCAG	50
40					104

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	GCTGACCTGG CTCTCGGAAA CGCAGGAGTC TTTCTGAGCC AGCTCAGAAA	150
	сс	152
5	(2) INFORMATION FOR SEQ ID :503:	•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 141 base pairs	
	(B) TYPE: nucleic acid	
. 10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :503:	
	CCCTGACCCC TCCTCACCAC CGCGCTGCAC CTCAGGGTTA CAAGAAGAAC	50
	TAGGAAATAA CGCCGGCCAC CNGACCCCTG GAGAGGGGCC GGCTAGAACA	100
20	NTTCTAAGAT CCNGCACAGC AGGTCCCGNA TGTNGAACCT T	141
	(2) INFORMATION FOR SEQ ID :504:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 107 base pairs	
	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
30		
·		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :504:	
35	CACACGACAC ACGACACGCA CGCAAACACG CCAGACGCGA CAGAGCGCGC	50
	GCGGGAGCGG AGCAGCGGAA GCGCAGCAGC GCACACGAGA GATAAGGGCG	100
	GCCGAGC	107
40	(2) INFORMATION FOR SEQ ID :505:	•

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 193 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :505:	
10	ACCCTCTTCT GATAAATTTG AGGGCCCGTT TGTCCTTGGA GACCTTCAGT	50
	AACTCCATGG CGCGCCATCG TACGGGGCAA ANACACACCT CCCGAATCAT	100
15	GTCCCGCACG AACTTGGTGT GTTTGGTCAG ACGCCCGCGT TNGGCNTGTG	150
	CTGGGCTTGC TCACGTTCTT GTCACTTTGT GGCCCTTGTT GAG	193
20	(2) INFORMATION FOR SEQ ID :506:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 274 base pairs	٠
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	•
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :506:	
- 30	ACATGGATAG GCGTATGCAT ACTACGCTAA GGAGAAACAA TGTTCCTACA	50
	TATTACGGGT AGTGAGAACA TTATCTGTAT AACAGGGAAC TGTGATTATT	100
35	TAAAAATAGC AGAACTTATT ANCTGTGCTT TAGAAATAAC TGTATACAGT	150
	GTTATAAGTT GAAAAGAACT CAAAATAACT AATAAATATA ACCTATGTAT	200
	TAGAATTAAA AAAGCTGCTT TCTGTGAAGT CAATCAGCTA TATTAAAAAA	250
40	TGACACAAAT CCAAACAAGA TGCA	27

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(2) INFORMATION	FOR	SEQ	ID	:507:
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	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 281 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :507:	•
	CAGGAGAAGG AAGGTTGTAC GTGGACACTA TAAAGGTCAG CAAATTGCAA	5
15	AGTAGTCCAG GTTTACAGGA AGAAATATGT TATCTACATC GAACGGGGCA	10
	GCGGGAAAAG GCTAATGGCA CAACTGTCCA CGTAGGCATT CACCCCAGCA	150
20	AGTGGTTATC ACTAGGCTAA AACTGACAAA GACCGCAAAA AAACCTTCAA	20
20	CNGAAAGCCA AATGTNCCAG CCGGAAAGGA AAGNGCATAC AAGGAAGAAA	25
	CNGAAAGCCA AATGINCCAG CCGGAAAGGA AAGNGCATAC AAGGAAGAAA	
	CCATTGAGAA GATGCAGGAG TAAAGTATTA T	28
25	(2) INFORMATION FOR SEQ ID :508:	•
	(i) SEQUENCE CHARACTERISTICS:	•
•	(A) LENGTH: 180 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
·	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :508:	
	AGGGNTGCTA ANNTATTGGT GGGCAGGAGG CATCGCTGAT GATCTTGAGG	5
		_
	CTGTTGTCAT ACTTCTCATG GTTCACACCC ATGACGAACA TGAGGCATCA	10
40	•	

GCAGAGGGGA CAGAGATGAT GACCCTTTCG CTCCCCCTG CAAATGAGCC

	CCAGCCTTCT CCATGGTGGT GAAGACGCCA	100
	(2) INFORMATION FOR SEQ ID :509:	
		•
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 104 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :509:	
15	AAATGCAAAA CTCACCGTGC ACACTCCTAG ATCCCTGCCA CAAAGAAATC	50
	TTTGAAAAAT GAAGTCTTCC TTTCGGACAA TATACCATTN GAGTTTCTCT	100
	ATTT	104
20		
	(2) INFORMATION FOR SEQ ID :510:	*
		•
	(i) SEQUENCE CHARACTERISTICS:	
,	(A) LENGTH: 171 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :510:	
	GTNNATACAC AACTAAGTTC AAATAAAAAA ACCAAATNAA AAATNGGCAG	50
35	GGAAGCTAGA GCCAGAATCA GGAAAATCTG TTTCCTCGTC CCCAGACTCC	100
	CGCCAAGCCT ACTCCACTAA CTAACANNGA CTCTATCAAG TTTCTATCAA	150
	GACTTGCATC TGNATCTTGN A	17:
40		
~ ~ .	(2) INFORMATION FOR SEQ ID :511:	
	/-/	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 255 base pairs(B) TYPE: nucleic acid

	(C) STRANDEDNESS: GOUDIE	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :511:	
10		***
	ACTGTACCTA TCATCCTGAA AAACTTTATG GGGGAGAAAG GTCAGCAGCT	.5
	TCTCTTTCTT TTNATCGAAA ATAATAAAAC TGCGTATTCT ACTTTAACTA	10
15	AATGTAAGGA AGAAAATATA CAAGCCCATA TTTAATGTAT TTCTATNCGA	- 15
	GCAACAATAG TTCATATGTT CATGTTTGCT ACTATCACAA TTCAACATAT	20
	GAACACAGAT CAGCTCTATA CCATGAATAC TGCTGGAAGT GATGGTTTAG	25
20		
	GATTA	25
	(2) INFORMATION FOR SEQ ID :512:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 210 base pairs	
	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		*
	(xi) SEQUENCE DESCRIPTION: SEQ ID :512:	
35	GAAAGATTGG ACATGATTGC GTTTATAAGA ATGAGAGTGT TAAATTGGAT	5
	TTCTTGCTTT ATTTGTGACA TTTCAGTTTA TTAGAAATCA TGTTACCATT	10
	AGAAAATTG AAGTTTCCTA GTAACAAAGT AATTTGATTT GTGTAACTTG	15
40		
	ATAAAAGATT TACTGACTTA AGCTTTTGTT TTTTTTCATA AGCTGCTTTT	20

	••	GAGCTTTGTC	210
		(2) INFORMATION FOR SEQ ID :513:	
5		(i) SEQUENCE CHARACTERISTICS:	·
		(A) LENGTH: 222 base pairs	
	*	(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
10			
		(xi) SEQUENCE DESCRIPTION: SEQ ID :513:	
15		CTGTACAATC ATCCTGCAGA AAATTGTTTT GGAGAATTCT TGGTAA	TTGA 50
		AGACCAGCAG AGCACCCCTC CCCACCCGCC CCGTAAAAGT GCTTAC	CAATG 100
20		AACAGGGATT CTTTTCTTTA CAAAAGACCC AAAGATACGT GGACAA	AAAA 150
20		AGAAAAGCTT GAAGTCTCAA TGCCTAATGT GTGCACATAA AACAGG	GCACG 200
	•	AAGAAACAAA CGTGTGCATC CT	222
25		(2) INFORMATION FOR SEQ ID :514:	
		(i) SEQUENCE CHARACTERISTICS:	
	•	(A) LENGTH: 240 base pairs	
		(B) TYPE: nucleic acid	
30		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
35		(xi) SEQUENCE DESCRIPTION: SEQ ID :514:	
		GCAGGAGAAG GAAAAGACAG CAACTCATCC CAGAATTGCC NAATG	AAGAT 50
40		GAGGAGAATC CCCTCAAAGG GATCTGTGTG CTTACAGTGG TGACAG	GTGAC 100
40		AATGAGGAGG ACTGATGAGA GACTCAAGAG TGAGGAAGAG AGCTA	GCTGA 150

	CTGNAAGAAA TGACCTGTCT NNTCTNCAGC GCCATTCCCN AACAGATGCC	200
	CTAGTCAGGA CCACAACTCT TAAACCTCAT AGCNAAATAT	240
5	(2) INFORMATION FOR SEQ ID :515:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 183 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :515:	
	CAATGCCCAA TCTGAGTGTA TACACATCTT AGGAAAAATA ATCTAANGTA	50
20	ACTTTTGAGG GTGAGAGNGG AAATAAGAGA TCACATTTAT TCAAGACTGA	100
,	TCCCTATNAG GAAGGAGAGG CCCAGGCACA GATACCACAA AAGAGCACAG	150
	TACCCAGCTG TCCTGGNATT GNTTGAGTGT AAG	183
25	(2) INFORMATION FOR SEQ ID :516:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 215 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :516:	
	TCGCAGCAGA AGGAAGTCGT TGACCTGGCA GCCAAGGGAA CACACAAACA	5
	CACTCACACA CACATGCACT CACCTGCATA CACACACACT CATACACACG	10
40	AACACTCATA CACACANGCT TGTGCACACA TGTTCATGCA CATGCATGCA	15

		CTCACACTCA TACAAACGCA CATTTAAACA CGTGTGNACA NTGTACTCAG	200
		ACACACACAG GTGTG	215
		nencaunent Clote	
5		(2) INFORMATION FOR SEQ ID :517:	
		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 181 base pairs	•
		(B) TYPE: nucleic acid	
10		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
15	,	(xi) SEQUENCE DESCRIPTION: SEQ ID :517:	
		TCGCAGAGAA GGAACAATCA GGGCCATGAC AGGAACCGCA AAGAACCAGA	50
		GGGTATAGGC AGCAAAGAAG GGCACATAAA AAGGCTGCTT CTCAGGAAAG	100
20		TGTCGCAGTG AGACAAACAC ACATACAGAC CACACAGA CCACCACCTC	150
		AATCATGGGC CCTAGCCGNC CTNGTAATAC G	181
25		(2) INFORMATION FOR SEQ ID :518:	
		(i) SEQUENCE CHARACTERISTICS:	
.*		(A) LENGTH: 260 base pairs	
		(B) TYPE: nucleic acid	
30		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
			•
35		(xi) SEQUENCE DESCRIPTION: SEQ ID :518:	
		ATGTAACTCA ATCCATCCGC AAGAAAACCA AACCAACAGA AAAGGAAGCT	50
		GAAGACATGG ACATCGCAAG CCACGCGGTA ATGCATACTT GGCACAGAGT	100
40		AGCCAATATA GAAGACGTGT GCCTCACACG GTTCACTTTG TTCATCAATA	150

•	AAAGAATATA AAAATCTCGT TCACCCAGTG GTAAGTGTAT TAAAATAGAT	200
	CTGTATCATA CACACAGTTT CTCCCGGAGT CGTGAGAATG ACAGGAGGGA	250
5	CCTGGCAACT	260
	(2) INFORMATION FOR SEQ ID :519:	
		•
	(i) SEQUENCE CHARACTERISTICS:	•
10	(A) LENGTH: 115 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
•		
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :519:	
	AAGCTAATAC AATGGTCATT TCCAGACAAA TTTAAAGGAA ACACTAAGGC	50
20	TGCTTCAAAG ATTATCTGAT TCCTTTAAAA TATATGTCTA TATACACAGA	100
	CATGCTCTTT TTTTA	115
25	(2) INFORMATION FOR SEQ ID :520:	
	A CONTRACT CUNDICATED CATACO	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 175 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
30	(C) SIRANDEDNESS: double (D) TOPOLOGY: linear	
		÷
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :520:	
	CANGTGGCTT CAATTAAACA ATNAGGAGCC TCNNAACATC CTGTCGCAGA	50
	AACTCCCAAT ATAAACGCCC CCANACACTA ACACAAAACA GCCTTATTAA	100
40	CCAGATAAGT TCTCCACTAC CACTCCTAGA TTTGATGTAA CCCTGAATNT	150

	••	GACTNATAGN TNGACCCACC TGTGA	175
		(2) INFORMATION FOR SEQ ID :521:	
. 5		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 136 base pairs	
		(B) TYPE: nucleic acid	•
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
10			
	-		
		(xi) SEQUENCE DESCRIPTION: SEQ ID :521:	
		(x1) blgoskos blbokiiiioki blg ib iblii	
15		ATGGAATCAA ACAGCTCTAT AATGAAGATA ATGTCTCAGA AAATGTGGGT	50
		TCTGTGTGTG GCACTGATTT ATCAAGACAA GAGGGACATG CTTCCCCTTG	100
20		TCCACCTTTG CAGCCTGTTT CTGTCATGTA GTTTCA	136
20		(2) INFORMATION FOR SEQ ID :522:	
		(i) SEQUENCE CHARACTERISTICS:	
*		(A) LENGTH: 200 base pairs	
25		(B) TYPE: nucleic acid	•
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
٠	٠		
30			
		(xi) SEQUENCE DESCRIPTION: SEQ ID :522:	
	,	AATGGAGCAA TTCATCCAGT TCTTCTAGAA ACAGCTCAGA ATCAAAGCTG	50
35		GATATATTT GTGTCTTCTG TGACTGTTCA TTCATGGAAG GAAGCAGACT	100
		GCTTTGGGCA GAATTATTCT CCTGACTACT TGAGCTAGTA GACTAGGAAC	150
40		TATTCCATAA GAGGAAATCC TGTAAGTCTT AAATCCCCAC TGGAGAAAGC	200
40		(2) INFORMATION FOR SEO ID :523:	

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(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 204 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :523:	
	AGTAAGGTTT TGCATCCTTT GATCAGCAGG TAACTGACGA ATTCTTGAGT	50
	CGAAGATTAT ACCTTGATGA GCTTTGATGA GCTCTTGCAA ACGAATGAGA	100
15	CCAGTGCTGT CATCATACAC AACCATGACG TTTTCCACTT GAAAAACTGC	150
	ACCAGGTCTA AAATGCACGC TGAGTGAAGA GAAGTCTGGG CAGAGACTGA	200
20	CATA	204
20	(2) INFORMATION FOR SEQ ID :524:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 168 base pairs	
25	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	·
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :524:	•
	ATATCTGTCT CATCATCCCA AGGTTTCACA TCTAGTAAGA TGGAAGACTT	50
35	GGCAACAAGT GCAGGTTTTT TGGCTTTCTT TGATTCATAT TGTGCAAGAC	100
	GTTCTTCCCT CAGCCTCTTT GCTTCTTCAC TTNNTCTAAN ATAATCCAAA	150
40	GAGGTCAATG TATCATCA	168

(2) INFORMATION FOR SEQ ID :525:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 291 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

• .	(with another programments are The F2F.	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :525:	
10	AAACTGTTCT TTAAAAGGCC TCTCCTGGTT ATTAAGCCAG GAAGAGAAGT	50
	AAACIGITCI TIAAAAGGCC ICICCIGGII AIIAAGCCAG GAAGAGAAGI	50
	AGAATCTCGA ATCACCTAAN GGAAATGGTG ACACAGGTTG TCCTTTCTCA	100
	NORMICION MICHOCIANA GOMMICOTO MOMONGUITO IGUITATON	200
15	GCCGTTGGTT TCCTTTCATC TCTGAAGGCC TGTAGTACCA TGAGGAAAAC	150
	ATTTAATTTA GAGGGTGAAC CCAACAGTAG GAAGCTGAAA GCAGAAGTGT	200
	TTATCTCCCT CTGCATTCAG ACCAGGCTCC TTAGTGCACT CATCAGACTA	250
20		
	TCGCTGCCCC TGCTGTCTGC TGTTGAGCCT TCACCACCAC T	29:
		•
	(2) INFORMATION FOR SEQ ID :526:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 207 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(will epopenop precontamion, ero to .524.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :526:	
35	CATCCGCGTG CTGGACCCCT TCACCATCAA GCCCCTGGAC AGAAAACTCA	5
	Chicocold Cidencecti Ichechicha Geoecidene Adamacien	, J
	TTCTCGACAG CGCTCGTGCC ACCAAGGGCA GGATCCTCAC CGTGGAGGAC	10
	The state of the s	
	CATTATTATG AAGATGGCAT TGGTGAGGCT GTGTCCNNNN GTAGTGGGCG	15
40		
	AGCCTGGCAT CACTGTCACC CACCTGGCAG TTAACCGGGT ACCAAGAAGT	20

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•	GGGAAGC	207
	(2) INFORMATION FOR SEQ ID :527:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 218 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :527:	
15	AGCATTCCGT AAGGACGGAC GTGTTCAAGG ACAACTTTGA TGAGATGGAC	50
	AGGTCTAGGG AGGTTGTTCA GGAGCTCATT GATGAGTACC ATGCGGCCAC	100
20	CCAGCCAGAC TACATTTCCT GGGGCACCCA GGAGCAGTGA TTTCCCTCCC	150
20	CACTACTTCT TTNCTTAGAT GGTAACCACA GCCTCGACCA TGCCTGCTCC	200
	CTCTGACCCA GCTTCACC	218
25	(2) INFORMATION FOR SEQ ID :528:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 229 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :528:	
	AACCTNATGA CTCTCCATCC CCTTGAACCA AACATCTAGC ACTCAGCTCC	50
	AGCATATTTC ACCATTCAAC CCGAAATTCA CAAACGCTAC TTGTCGACTT	100
40		15/

	CTNCGCTGCA AGGTGACTCA CTAAAATCAT NTGTTAACAC CAACATTATT	200
	TTTACACCCA GTGTGTAAGC CAGAAGGGC	229
		•
5	(2) INFORMATION FOR SEQ ID :529:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 117 base pairs	•
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :529:	
	ATATTATTCA TCATCCCAAG GTCACATCTA GTAAGATGGA AGACTTGGCA	50
	ACAAGTGCAG GTTTTTGCTT TCTTTGATTC ATATCGTGCA AGACTTCTTC	100
20		
	CTTAGCCTCT TTGCTTC	. 117
	(2) INFORMATION FOR SEQ ID :530:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 179 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(b) lorobodi. linear	
. 30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :530:	
	(10)	
35	TCGCAGCAGA AGGAAGCTGA TCCACCATCC GGACAACCCG AACCCAAGCT	50
		•
	GAAGACGAGA AATGATCCAG AAAGAATGTG CTGCAATCCG GTCATCTTTT	100
	AGAGAAGAAG ACAATACACA CCAATGTCGA AATGTGGCAA AATTACTGTA	150
40		
	TATGCACATG CTGGTGCTAC CCTCTCACT	179

. 15

20

25

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(2) INFORMATION FOR SEQ ID :531:

(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 204 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
	•
(xi) SEQUENCE DESCRIPTION: SEQ ID :531:	*
AAAGCATTCA AGTAAGAATA TGGCAATAAA AAACAAAAAT ATCTTCTCAG	50
CATTCAAAAC AAAACGCATA AGTCATTCCT AACTTNAGAG CTTTATAGCA	100
TTTTCCTAGA CAGGAAGGGA AAAAACAGTT AGCATTTAAA AGTCCGGAAA	150
GCTTTTTCGT TGNNTTAATT ACATCAACNN TCTGCCTTTG TCCAAATCCC	200
TTAT	204
(2) INFORMATION FOR SEQ ID :532:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 183 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
\cdot	

30

(xi) SEQUENCE DESCRIPTION: SEQ ID :532:

35	AAAGGAGCTC	AGAACTTCAG	CTTGAGCAGG	AAGAGGAGGA	CGTGCCAGAC	. 50
	CAGGAACAGA	GCAGCAGCAT	CGAGACCCCA	TCAGAGGAGG	CGGCCTCTCC	100
40	CCACAGCTGA	GGGGCTGGGC	TAGGGGTGGG	TGGAGCCCTT	TTAAAATACC	150
40	CTTTCTTCAA	AACTTAGCTC	TGAATGGAGA	AAC		183

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	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 287 base pairs	•
. 5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		• .
10		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :533:	
	GAAACAAGTT CTCGCTCATC CCTGCATTTC TGCCAACTTC AGCTTGCAAT	50
15	ATTTATACTC CAGACTATTT TCATCAGACA AAAACCAGTA AGCAGGGTCC	100
	TCTTTGAGAA GAGTTCTCTC TTTGGGAGAC AGGCTGCCTT CGATGACACG	150
	TTTCACAAGC TGGTTGATGG TGCCCACTAC CCGTGATCTG CTCGCTGGGG	200
20		250
	GACAGCATCA CTCAGACTAC TTGGAGCCTT GCCTGAATTT CAGGTTTCGT	250
	AGGAGGAATA ATTTTCTCCT TCTNTNGTAT CGNCTCT	287
	AGGAGGATA ATTICION TOTALICIAN GONOTOL	
25	(2) INFORMATION FOR SEQ ID :534:	•
	(=, ===================================	
	(i) SEQUENCE CHARACTERISTICS:	
-"	(A) LENGTH: 154 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :534:	
•	AGCCACTGCC CCTCTTGTCT ACGTATTCCC AAAATTAAAC TTTGATGCCT	50
,		
••	GACTTTTTGC AGTCAGTTTT AAGTGAGCTC CCTGAGGTGC CAAGGCCATG	100
40		

GTGTCCCCCT GCTGCGTCTG TTCGTCAGCT GAGTTCTTGT GAATCTNTGT

	TTAG	134
	AND THE PROPERTY OF THE APPLICATION OF THE APPLICAT	
	(2) INFORMATION FOR SEQ ID :535:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 212 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
•		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :535:	
		5.0
. 15	GATTACCCTA TATCTACAAT TNGAGGTAAA ATAGAAGCAA CACATAAAAG	50
		100
	GGCCTATTTC TGCTACCATG TCATATAATT CTCCATAGTG AATATTGTGA	100
	TAAAGCTACT GAAAACTATG CCTCACAGAG CCTAGCTTCT TGTAGAGCTG	150
20	TAMAGCIACI GAMMACIAIG CCICACAGAG CCIAGCIICI IGIAGAGCIG	150
20	GTATTTTACA ACTCGCATTG CTTGGAAATC TCAACACACG TAAGACTCTC	200
	CTAGGAAGGC AC	212
25	(2) INFORMATION FOR SEQ ID :536:	
	(i) SEQUENCE CHARACTERISTICS:	•
•	(A) LENGTH: 168 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	. :
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :536:	
	GGAAGCTCAA TGTCCGGCAG GTCAATGCTT CNCGGACACG GATCATTTTT	50
	GGMAGCICAM IGICCGGCAG GICANIGCII CNCGGACACG GAICAIIIII	3(
	ATCTGATTCC AGCCTGCTTG CAACCCTGGA ATCCTCTTGT TCCCTGCTGC	100
. 40	Wignering Brootdoile Surregues interester resolution	
70	CTGCCCCTTG GGAAGGNACA GTGATGTCTT TAGGGGAAGG AGGAGCCCCT	15

	••	NTCGGCAGTT GTCTTACT	168
		(2) INFORMATION FOR SEQ ID :537:	•
5		(i) SEQUENCE CHARACTERISTICS:	
5		(A) LENGTH: 147 base pairs	
		(B) TYPE: nucleic acid	
	* .	(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	*
10			•
	•	(xi) SEQUENCE DESCRIPTION: SEQ ID :537:	
15		CGGATCATTT TTATCTGATT CCAGCCTGCT TGCAACCCTG GAATCCTCT	50
		GTTCCCTGCT GCCTGCCCCT TGGGAAGGNA CAGTGATGTC TTTAGGGGAA	100
		GGAGGAGCCC CTNTCGGCAG TTGTCTTACT AGGNNNNTAA TGAAGTA	147
20		(2) INFORMATION FOR SEQ ID :538:	
		(i) SEQUENCE CHARACTERISTICS:	
•		(A) LENGTH: 250 base pairs	
25		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
20			
30		(xi) SEQUENCE DESCRIPTION: SEQ ID :538:	
•		GTGGAATCTC AATAATGACA CAAGGTACCA ACTGCCAGCA TTTCTGCGAG	50
35		GCAATCCTGC TCTTAATCTG CAAGATGGAC CCTTCTGCAG AGAGATTGC	r 100
		GTGGGTGATT CTAAGGACAG ATTGTTATAT ACGATGTGGG AGAGCAGAT	r 150
4.5		GCTGTTCCCC GCAATGATGA ATGGGCACGG TTTGGCCGAA CACTTGCAG	A 200
40		AATNAATGTA AACCCNAACT GATGTAGAGA GGACGCAGCT GCCCNAATA	C 250

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(2) INFORMATION FOR SEQ ID :541:

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(2) INFORMATION FOR SEQ ID :539:

•		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 184 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
10		
,	(xi) SEQUENCE DESCRIPTION: SEQ ID :539:	
	AGAAGGTAAG GGAGTGGGAG GCAGGTGGGT GTTCTGGAGG GGGTATCCTT	50
15	GTGCTCTAAG GGTGCTATGT TCGATGCTGG TGTTTCGGGG ATGGTGAATG	100
	CCCTTCTTTA ANNTTAGAGG GAAATCCAAA CCAATAGGCC CCAAGGTTGC	150
	CAGTGGGATA GGGGTGTAAA AAAGTAAATT GGGC	184
20	(2) INFORMATION FOR SEQ ID :540:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 154 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	,
-	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :540:	·
	AACTTATAGA AAAGTAAAGG AAACCCCAAC ATGCATGCAC TGCCTTGTGA	50
35	CCAGGGAAGT CACCCCACGG CTATGGGAAA TTAGCCCGAG GCTTANCTTT	100
	CATCATCATG TCTCCCAGGG NGTGCTTGCA AAGAGATATT CCGCCAAGCC	150

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(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 175 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

. •	(xi) SEQUENCE DESCRIPTION: SEQ ID :541:	
10		
	AATTGAATTC TTAAGAAGCT GTCAAATATG GCAGTCTTTT GATGTTAGTA	5(
	ATTTTGTTTT CTTCTGTGTT ATTGGTTCAA AGTACTGGCC TTTTCCTTCA	10
15	TTTCCAGTAA TTATTTTATA ACTATCACTT TTAATTGAGT GGAAATTAGA	150
	TGATTTGGTT ATACTGTGAA ACAGC	17!
20	(2) INFORMATION FOR SEQ ID :542:	
20	(i) SEQUENCE CHARACTERISTICS:	,
	(A) LENGTH: 221 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
.*		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :542:	
30		
	AAGTACCTTT TCCTGCAGCT GCCCGTATGC CTGAGTGACT AAGGGGCAGT	5
	CGTGAGAGGC AGAGTCCAAG ATCTCATTGG TCGTTTCCAG ACTGCCGTCC	10
35	AGCCGTGCTG CTTCATCAGG GCACACTCGC CGCCCTCCTG GGGCCAGGTT	15
	GCACATGTAC AGGTACCCGT CGGCGCACCC ACCAACAACG CGGTCTTCTG	20
40	AATCGCGACT GGCNAACAGA T	22
	(2) INFORMATION FOR SEQ ID :543:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 186 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :543:	
10		
	AAGTAGATAG CTTGCATCCT GACACCGTGG CAAAGTTAAG AAAGTTGAAG	50
	GAGAAACATA CCTTGAGAGG GGGTTTTCTT TAAAACTAGT GTTAGAAGCT	100
	maccolumns specimental accomplemental accomplementa	15/
15	TAGGGATTTT TTTTTTATT CCTTACTAAC TTTCACCCAG AACCGCTCTA	150
	TTTGACTTGT GCCGACATTG CAAACTTTNT GACAGG	186
	(2) INFORMATION FOR SEQ ID :544:	•
20	(2) INFORMATION FOR SEQ ID . 344.	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 153 base pairs	•
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :544:	
30	AGCATCCTTG CCACCTCCCC ACCCGGGAGT CAAGGGTCGT GGTTCTGCCT	50
	TGAACAGGCC ACAGCCGTAG CTGTAGAGAG GCCAGTGGTA CATCAGCCCA	100
35	CCGACAGGAG GAGGAGCCCT GGCTTGAGGG AAGGGGAAGC CCAGGCCTGT	15
	GCC	15.
		20.
	(2) INFORMATION FOR SEQ ID :545:	
40		•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 161 base pairs	
	(W) TENGIU: TOT Dase bails	

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
. 5		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :545:	
	GATTCAGCTC CAGCATCCTT GCCACCTCCC CACCCGGGAG TCAAGGGTCG	- 50
10	TGGTTCTGCC TTGAACAGGC CACAGCCGTA GCTGTAGAGA GGCCAGTGGT	100
	TGGTTCTGCC TTGAACAGGC CACAGCCGTA GCTGTAGAGA GGCCAGTGGT	100
	ACATCAGCCC ACCGACAGGA GGAGGAGCCC TGGCTTGAGG GAAGGGGAAG	150
15	CCCAGGCCTG T	161
•	(2) INFORMATION FOR SEQ ID :546:	
20	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 188 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :546:	
	AATAGCCCTG AGGTCATCCT GCAAAGTGCG TATCAAAAAA TACGAAGTTA	50
30	ANIMOCCCIG MOGICAICCI GCAAAGIGCG INICAAAAAA IACGAAGIIA	5(
-	GGGTGACAAA GTTTGACAGT GATGTTATAC AAGTCAAACT TGGAAGGTCA	100
•	TAGTAAGCAT ACCTATGCTG AGAGAAAGCA TCAAATCCTT TGTGTACACA	150
35	TTTAGTTTTA TTGTAACAAA GCAACTTGTA CACTTTTA	188
	(2) INFORMATION FOR CRO ID .E47.	
	(2) INFORMATION FOR SEQ ID :547:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 218 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :547:	
	ATNOCTTOTO CATOCANTTA GTTANCAGAA ACTAATCAAA AGAAAGTOTG	50
	ACAACTGCAC TCCCCCTTGC ATGCCATTCT CTCAAGCCCA TAATCTTGGA	100
10	GTATCCACAA CGTGCGAAGG CCTACCCTTT GTGTGTACTC ATCTCACGTT	150
	TACGTATTTT GTNGTTGAGG AGCTCCTCTA CAAATGTTGC GTATCTTCCG	200
15	AATCACTCAT TTAGAAAA	218
	(2) INFORMATION FOR SEQ ID :548:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 46 base pairs	÷
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
;	(D) TOPOLOGY: linear	
25		
• •	(xi) SEQUENCE DESCRIPTION: SEQ ID :548:	,
	GGAGGAGACC ATCAGNCCCG TGAAGACCAC TCCTGACGTC TCGTGT	46
30		
•	(2) INFORMATION FOR SEQ ID :549:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 146 base pairs	-
35	(B) TYPE: nucleic acid	
- -	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :549:

	AGGGGGCTAA NGGTTGGGGG CAGGAGGCAT TGCTGATGAT CTTGAGGCTG	50
٠	TTGTCATACT TTTCACGGTT CACACCCACG ACGACACGGG GACTCAGCAG	100
5	AGGGGCAAGA CACGACCTTT AGTTTCCCCC TTGCGATAAN CTTCNC	146
	(2) INFORMATION FOR SEQ ID :550:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 221 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :550:	
	AAATATNGAN TATCCATCCC CTCAAGCATT TATCCTTTGT GTTACAAACA	50
20	ATCCAATTAT ACTCTTTCAG TTATTTTAAC ATGTACAATT AAATTATTAT	100
	TGACTCTAGT CACCTTGTTG TGCGAGCAAG TACTAGGTCT TATTCATTCT	150
25	TTCTAACTAT TCCAGGCCCT TTTTAATCAA GAAGGCTCCC TAGACCAAAA	200
	TTTTAAAAAG ACAATGCTAG G	221
	(2) INFORMATION FOR SEQ ID :551:	
30		
	(i) SEQUENCE CHARACTERISTICS:	
÷	(A) LENGTH: 116 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEC ID :551:

40

AAACATCGTT TATTCATCCA GCAGTGTTGC TCAGCTCCTA CCTCTGTGCC

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	AGGGCAGCAT TTTCATATCC AAGATCAATT CCCTCTCTCA GCACAGCCTG	100
	GGGAGGGGT CATTGT	116
5	(2) INFORMATION FOR SEQ ID :552:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 150 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :552:	
	CTCATCCTCT CCTATTACAT AGTGAAGCCC ATGNCAAATA GGAAGAAGCT	50
	CAGTATCGCT CCTCCCACCA TAACCCCCCT TAATGCCTCC TGAACCATAG	100
20		
	TINCCTCCAC TATATATCCC CCCATGTTCC TGCTACCCCA AGTTTTCACT	150
	(2) INFORMATION FOR SEQ ID :553:	. ·
25	(i) SEQUENCE CHARACTERISTICS:	•
23	(A) LENGTH: 189 base pairs	
	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(2)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :553:	
35	ACTTATTGAA ATAGCAGACA TTTCGCTAGA CACTCCAATT AACCTGATAT	50
•	GAGGCGCTAA TCAATAAAAA AAGTTAAACA TTTGCATGAC TCTACTATGG	100
	GAATAAATTA CCTGTTTAAT ACCTCGACTT TTTATAGAAA AATAATGATG	150
40	NCCAAGGTAA ACCAGGTAAC CCAGGCCTGT GAACTATAT	189

(2) INFORMATION FOR SEQ ID :554:

* *		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 198 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :554:	
	ACTTATTGAA ATAGCAGACA TTTCGCTAGA CACTCCAATT AACCTGATAT	50
15	GAGGCGCTAA TCAATAAAAA AAGTTAAACA TTTGCATGAC TCTACTATGG	100
	GAATAAATTA CCTGTTTAAT ACCTCGACTT TTTATAGAAA AATAATGATG	150
20	NCCAAGGTAA ACCAGGTAAC CCAGGCCTGT GAACTATATG CCTGGAAC	198
20	(2) INFORMATION FOR SEQ ID :555:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 97 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
,		
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :555:	
	CAAGCTGAGG AGCAAGGAGA GCCAGTCTGA GTCCCAAAAC TGAAGAACTT	50
35	GAGTCTGATG TTCGAGGGCA GGAAGCACCC AGCACAGGAG AAAGATG	97
	(2) INFORMATION FOR SEQ ID :556:	
·	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 269 base pairs	
*	(B) TYPE: nucleic acid	

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :556:	
	TCTGCTGTCT GTCGCAGGAG AAGGAATGTC AGAAACTTCA TCCTCTTGTT	50
10	GGGGAATGCA CCCTCNTGAG TAGGCTGACC CATGAGGCTG TGGGAATTGA	100
10	GTCTTAGGAC ACAGAGACCA GGGTGTTGAA TTTTCTTCCC TGCCCCTAGG	150
-	CTGTTCAGGT CTTCCTGCAG CAGTCAGGGC TGCAAGCCCT GGAAAGGCAT	200
15	CAAAAGAGGC CCAGCTCCAG GATCGTGTGT ATGCTCTCCA GCAGACAGCT	250
	CTTCAAGGGT GATCTTGTT	269
20	(2) INFORMATION FOR SEQ ID :557:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 245 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :557:	
	ACTCCCTCAA GGTCGTGCGT CTAAGCCTAC AAGAAAGTTT GCCTATCTGG	50
	ACCCTGNCTC ACGAGGTTGG CTGGAAGTAC CAGGCAGTGA CAGCCACCCT	100
35	GGAGGAGAAG AGGAAAGAAA AAGCCAAGAT CCACTACCGG AAGAAGAAAC	150
•	AGCTCATGAG GCTACGAAAC AGGCCGAGAA GAACGTGGAG AAGAAAATTG	200
40	ACAAATACAA AGGTTCTCAA GACCCACNNA CTCCTAGNTT NAGCC	245
	(2) INFORMATION FOR SEQ ID :558:	

35

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(i)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 183 base pairs	•
	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		. •

(xi) SEQUENCE DESCRIPTION: SEQ ID :558: 10 GAATTTAAAA AAAAAGAAAG AAAGAAAGAA AGGTTCCATC TTAGATTCTC 50 ACAACCTTCG TTCCGCAGTT CATTAATCCG ACTCTGATGC TAAGGTGACA 100 15 GTGTATGTAA GTAGATTTTT GTTTTCAGTG AAGGAGACCT GGGAAAAGAT 150 GGATTTCTCT CTGTATCTTA AGAGTTATCA GAT 183 (2) INFORMATION FOR SEQ ID :559: 20 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 25 (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :559: 30 GTCATCTTTG GAAAGTGAGA TAACCAAGGA AATAATCGAA GGAGTTAGGG 50 AGATGATTAC GTGATAATGA CTTTGGGCGC TTAACCTTTG ATCCCGGGTA 100

(2) INFORMATION FOR SEQ ID :560:

TGCTNAAGAA GCTGAC

(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 160 base pairs(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

. 291

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :560:	
	CCTTGATGAT ACCATTATCC TCATTATAGA TGATGCACGG GCCCCTGCGC	50
10	TGGATACGGC GACGGTTTCT CATTTGCCTT TGTCAGCTCT CATTCGCTGA	100
10	GAGGCATAGA CCTTTTTGAT ATCATCAGGC TTTCCGTTTT TAGGAGCAAA	150
	ACAGCTTCTT	160
15	(2) INFORMATION FOR SEQ ID :561:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 101 base pairs	
	(B) TYPE: nucleic acid	٠
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :561:	
	GCAGTTGGCA GGTGCACTAT CCCAGATGGG CCACTAATAG AAAGTTCCGC	50
30	AAATGCACCC CGTTCCCCTG TGCGAGATCG TTTGAATNAG ACCAGAAACT	100
30	G	101
	(2) INFORMATION FOR SEQ ID :562:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 183 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :562:	
	ATAAGTTATA GCAAATACAG TCTTCACAGA TTTGAGTAAC TTTATTCGAT	50
5	TTTATAGTGA TTTCTTAAGG CCTATATCCA ATGAAACCAT TTCCAAGCTC	100
	TATGAGGAGT GGAATTTTAG ATGTCTATTA CATTNGTCTT TTAAAAGAAA	150
	AATGCTTAAC NNCTAGAATG AGCAAGATTA CTT	183
10	(2) INFORMATION FOR SEQ ID :563:	• .
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 187 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
٠.		
		•
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :563:	
	AGAGACACGT GAAATTCATA TCTCAAANNC ACAGAGCTGA GACTTTGGGC	50
25	CTAAATACTG TACCACTGGT TCCCTGAACC AAGGAAGAAA AGTGTCGGTA	100
	AAGGCCCGTT AAGACAAGAT GGCAAGGAAA AGCACCTTAA ACAATGGTAA	150
	GATTTATGTT AGATCAGTGG TAAGAGTTTC TAGTGAC	187
30		
	(2) INFORMATION FOR SEQ ID :564:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 213 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

(xi) SEQUENCE DESCRIPTION: SEQ ID :564:

•	GGGACCCCAA ATCACATCCA GAATACTAGA GTGAGGCAGC TGCAACATGA	50
	CACAGAAAAA TGGAATCAGG ATTTAGGGGA ATTGGATTTC AGTGCCTATT	100
5	GAGACACGAT CTAGGAAGCC TACCACTTTG GCTGCTCACT GTATGCACAC	150
	AACCCNANNA NAATNGATGA AAACAAGAAT GTACAGCATG CTCCTAACAC	200
	AANGTGACTA TTC	213
10	(2) INFORMATION FOR SEQ ID :565:	
	(i) SEQUENCE CHARACTERISTICS:	
*	(A) LENGTH: 167 base pairs	
15	(B) TYPE: nucleic acid	
. •	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
20		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :565:	
	TCCATCTGAC ATCGCATTTC CATAGAAATG GCCAAAGAAA GAAGGTCCTG	50
25	GGGTTTTTCA TAGAAAGCTC AAAAAGTTCA ACCTTGATGC TATCCCCCAG	100
	CCCAATACAA AATACACAGA AAAAGCAATT ATTAAAATAC TGGCTTCGGT	150
20	TTCTTTTTT CCTTTAA	167
30	(2) INFORMATION FOR SEQ ID :566:	•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 128 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
•		

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(xi) SEQUENCE DESCRIPTION: SEQ ID :566:

	GAAGATACAG AACCATCCGT GAAAATCATT TAGCACTGGA GACCTTCTTT	50
	GTATTACTTC CTNGTTACTA GACCTCTAA TTCAATGGGG CCCTGCTGGT	100
· 5	TTGTCGATGA ATTGAGCAAC TGAGAACG	128
	(2) INFORMATION FOR SEQ ID :567:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 202 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :567:	
	GGAGGCTCGG GAGTAGCATC CTCAGGAGTA GTGTAGCGAG CAAATTTGGA	50
20		
	AAGTAGTCCT CAATCTTCGA TTTCCCAGCA AGGACTTTCT CAGCNAGCGA	100
	TCTCGNTTGT TGAGGAACGG ATCAAGAGAT GNNNGTNTAG CTGTNNTGTT	150
25	GTTTAGATGT CTTGAAGAGG TTAGAGCCTC CTGTAGGCGG TTGGNNTGGG	200
	NG	202
	(2) INFORMATION FOR SEQ ID :568:	
30		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 152 base pairs	
٠	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :568:	
40		
	ATGTCATGAT GCCTAACTCA TACACTCTTT GCCTCAAATA TAATTACTAA	50

••	AAACAAATAT AGTATAAACA TTAAACAAAT GAACAATAAT CATCAATAGA	100
	CGGGTTACTT TCAAGGAAGA GTTGTTTTGT GACAAATTCT ACTCTTGATC	150
5	TA	152
	(2) INFORMATION FOR SEQ ID :569:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 181 base pairs	
10	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	·
	(D) TOPOLOGY: linear	
•	(b) Torobodi. Timear	٠.
•		
15 .		
	(will enguence preceditation, ero in .540.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :569:	
	CAGGTCCGCG TGCTCTCCGC ACCACCCCAC TTCATTCCGG CCAAACCAAC	50
20	CANNICOGE INCICIOGE ACCACCOCAE ITEMITOCH COMMICCANO	30
20	CGCACCCCTG AATTTCTCCG CAAATTTCCT GCCGGCAAGG TCCCAGCATT	100
	Concessed Antitolog Childrifton Coodening Toomsonii	
	TGAGGGGATG ATGGATTCTG TGTGTTTGAG AGCAACGCCA TTGCCTATTA	150
25	CGCGAGCAAT GAGGAGCTGC GGGGAAGTAC T	181
	(2) INFORMATION FOR SEQ ID :570:	
•		
•	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 157 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :570:	
•		
	ATCCCTTGGG AGTTTATTCT CCTGGTAAGC TGTAATTGCA TATCCAGTTT	5
40		•
	AACTGGACTG GGCTGTTTG GGCGAGGATC NGCAGGGTTT TTTCCTCNNT	10

	•	NGAAAGATGA AATAGATTNT TGAGCACTGG NTGCAGAGCC AAAATGCNTA	150
		ATGCTTT	157
. 5		(2) INFORMATION FOR SEQ ID :571:	
			,
		(i) SEQUENCE CHARACTERISTICS:	
•		(A) LENGTH: 193 base pairs	•
		(B) TYPE: nucleic acid	
10		(C) STRANDEDNESS: double	•
		(D) TOPOLOGY: linear	
			-
15		(xi) SEQUENCE DESCRIPTION: SEQ ID :571:	
		GGCACTAAAG CCTTTAATAA TACGAGATGA AATGCAACNG TGNNATGACA	50
20		AGTAAGTGAG CCTGACCTGG CATTGCCTCG CCTCACCGCT GGCTTTGACC	100
20		NOCCENTRON CHEMINA COMPAN MODEL COMON MODEL CHECKBON CARCONNELLO	156
		AGGGTATGAT CTTTAACTTT TCTGAGCTGA TTTGATCGTG GTCTTTACAC	150
•		ACAGGTGGTC GTTCCTGTTT GGACACTGTT TTATTTGTTT GAC	193
•		nonociotic directorii dononociori rimiridiri dac	
25		(2) INFORMATION FOR SEQ ID :572:	
		(i) SEQUENCE CHARACTERISTICS:	
	•	(A) LENGTH: 179 base pairs	
	٠	(B) TYPE: nucleic acid	
30		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
-			
35		(xi) SEQUENCE DESCRIPTION: SEQ ID :572:	
		TCGCAGGAGA AAGAGGTTTT CAGAGGCCCT GAGGACATGG CTGCCCTTGA	50
		GAAGGATTTG AGGAGGTTGG TGGAATTTGT TGAAGGAGAG GGCGAGGAAG	100
40			
		AAGGAGAGGA TACTAAAGTT AAAACGTCAC AAGGTGTGCT TTTAAGGGAG	150

	CTTTCCTGTT TTAAACATGA AAGTGTGGC	179
	(2) INFORMATION FOR SEQ ID :573:	
5	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 189 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :573:	
15	AGGACCTCTA AGACATCCTT ATGACGACAG TTTTGTCCAA GGGGATATCC	50
	ACAGAGTACC TTGTGGCATT AGGTGATTGT AGTCATACAC TTTAAAAAGA	100
20	TTTTATTTCT GATCTTTTGG CGATCTTCTT CTTGCCCATG NNGCTGTTAC	150
	TTNGCNCGGG NAGCGGTTAA TTCTANCCGC TAGGTGTGC	189
	(2) INFORMATION FOR SEQ ID :574:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 262 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(-,	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :574:	
35	GTGCCTTCTA GGTTTTGAAC TTCTATGCAT TAGCGCAGAT GTGGAATGCG	50
	TAAAGGTGTT CATAGTTTGA CTGTTTCTAT GATGTTTTTT CAAAGAATCG	100
46	TCCTTTTTTG AACTATAATN CCCCNCGGTT ATTTTACCAT CACAGTTTAA	150
40	ATGTATATCT TTTACGTCTC TACTCAGACC ATATTTNAAA GGGGCGCCTC	200

	•	ATTATGGGGC AGAGAACCTT TTAATAAGTC TCATTAAGAT CTGAATTTTG	250
	• .	GTTCTAAGCA TT	262
		dicinate ii	
5		(2) INFORMATION FOR SEQ ID :575:	
	•	(i) SEQUENCE CHARACTERISTICS:	•
•		(A) LENGTH: 56 base pairs	
		(B) TYPE: nucleic acid	٠.
10		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
15		(xi) SEQUENCE DESCRIPTION: SEQ ID :575:	
	•	CCAAGGAACC ATCTGCGCCG CAAGCCAGAC CCCACAAGAC CTAGNTTGGT	50
٠.			
		CCTGAC	56
20			
		(2) INFORMATION FOR SEQ ID :576:	
	•	(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 158 base pairs	
25		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
-	٠	(b) TOPOLOGI: Timear	
30			
50		(xi) SEQUENCE DESCRIPTION: SEQ ID :576:	
		GCGAGTCTCA AAGAGTAGAG GAGCGTCTAC TATCTTTCAA CTCCGATCTT	50
35		CTGATGNCGG ACTTTACCGT GACAGCGAAG TGGTATTGTA CGTCCAGGCC	100
		CGCCAGCCAC TGTCTTCATG CAGGAACCAC AGTGCCAGAT CCCCACAGCT	150
40		CGTATCTT	158
70		(2) INFORMATION FOR SEQ ID :577:	

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299

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 255 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :577:	,
10	GGACCTTGAC CCACATCCAT GTTGAGGAAT GTCCTCTTGT CAAGGTCAGG	5
	GAACAGCACC CACAGAGGGC CTCTGGGTCC CTCTCTGCTC AACTCCCTCT	10
15	CTCTCGGTTC CTGCGAGGCT CATAGGGTGC AGGGCCCAGC AGAAGGACTG	15
•	AGTCTTCCTC CTGGACTTCT GGTCCTGGTA GGCTGTGCTT CATGCTCTCC	200
20	TGTCACCTGT ACTGTAAGGA ACTATTATGA CAAACGCATA AAGAATATGA	25
20	CTTTG	25
	(2) INFORMATION FOR SEQ ID :578:	•
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 270 base pairs	
	(B) TYPE: nucleic acid	
*	(C) STRANDEDNESS: double	
.	(D) TOPOLOGY: linear	
30		•
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :578:	,
35	GAGGAGTCCA TGCCATCCTT GATGGAAAAG AAACTGAAGA GAAAAGACAG	. 5
	CCTGTGGAAG AAGCTCAAAG GTTCTTTGAA GAAGAAGAGA GAAAATATGA	10
40	CATGATATCT TTGCTTTTGA GTTCCTCACG CTCTCTGAAT TTATTAGTTG	15

GACAATTCCA TATGCAGCAT TCTGCTTCAA TATANCTCTT NNGGTCTCTC

	TCTCTNNAAT ATTTGCCTGT AGGTAAAAGC AAGCTCTGCA TATCTGTACC	250
	TCTTGAGATA GTTTTGTTTT	270
5	(2) INFORMATION FOR SEQ ID :579:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 139 base pairs	•
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :579:	
	GAGTTTTCAG AGGCCCGTGA GGACATGGCT GCCCTTGAGA AGGATTATGA	50
	00100FFF000 F001F0FFF 01100100 0110101010	
20	GGAGGTTGGG TGGATCTGTT GAAGGAGAGG GNAGAAGAGG AGAGGAATGC	100
20	TAAAGTTAAA ACGTAATAAA GATGCTGCTC TTACGGAAG	139
	(2) INFORMATION FOR SEQ ID :580:	
25	()	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 168 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(b) Torozodi. Iznear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :580:	·
35	GGCAGGAATA CATATAGTCA TCATTGCCAG ACTTAATATG AGAGGTGAAA	50
	TGTTCGATCC AATTTATTTC TTGGATAAGT TTTTCTTTCC TATNCCTNTN	100
•	GTTTTGATAA TATAATAAAG AAGATGAGGG GCCCA. A TATAGAGCTC	150
40	CTGAGNGAGT TTTNGGAG	168

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	(2) INFORMATION FOR SEQ ID :581:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 242 base pairs	
. 5	(B) TYPE: nucleic acid	
_	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
		٠.
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :581:	
	CGGAGGCCC TGTTTGGGAA AAATAGGATT TTAAAAATAT GGTTCATTAA	50
15	TTTAGGTTTT CTAACATCTA CTTGGGGATG TAGCCTCCAG TGAGGTCAGT	100
	TAAGTGGGAC AGAAACGGCA GAGGGAAGAG GTCTTTGCTT CCCCTGGGCC	150
20	CATTCTCCCT GGCTGCCAGC CCTTGAAGTC AGAACACCAT GGGAAAATTC	200
20	AGGAGTCGGC ACTGTAGCCG TCAAGTGGCG CTACTTTCCA CA	242
	(2) INFORMATION FOR SEQ ID :582:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 37 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :582:	•
35	GCATTTTTCT TGTGTGCTGT TTATAATAGC AAAGCAG	37
	(2) INFORMATION FOR SEQ ID :583:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 179 base pairs	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :583:	
	GGAACAAAGA AAATGTACAG AGTTATATGC GCTTTTTTTT GGTATGGGGG	50
	ACAAGAAACA CTTACCAACA AAAATATTTC AACAACCCCA AAATAACTTA	100
10	CTCACAAATA TGCAAAATTA TCTATGGCAT AGTATTTCGC ACTCGATGAC	150
,	ATTTAGAGAT AAAAAATCAA ATGGAGCTT	179
15	(2) INFORMATION FOR SEQ ID :584:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 186 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :584:	
	AACTGCCATG AAGTAACCTG AAGGAGGCGC TGACTGGAGG GATTGATTAC	50
	AGGATCGGAA CACTCCACAC TCGCCATTCT CTGCATATAC CGGTTAGCGA	. 100
30		
	GGCGAGCCTG GCGCTCTTCT TCGCGCTGAG CTAAAGCTAC ACACAATGCT	150
	TTGCGACCAC AATNCACCCT TCATTTCGTA ACTGCT	186
35	(2) INFORMATION FOR SEQ ID :585:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 180 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

(xi) S	SEOUENCE	DESCRIPTION:	SEO	ID	:585:
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ACCCACGGTA CTTACATCCT ATGATATGGC CTGCAAACTA AACTACAAAC 50 5 GCACTCACAT CGCTATAATC CTTTTAAGGA CTTAAACTTT ACTCCATTAA 100 GACTTTTATG ACTTCTAACA ACCTCGCCAA CCTCCTCACC CCCCACTATA 150 10 CCTCGGAGAA CTTTCGCGTA ATAACCACGT 180 (2) INFORMATION FOR SEQ ID :586: (i) SEQUENCE CHARACTERISTICS: 15 (A) LENGTH: 183 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 20 (xi) SEQUENCE DESCRIPTION: SEQ ID :586: ACCGACATCA CGANNGACTT GGTCTTAGTT GAGCAATTTG GCTAANNNNN-50 25 NTNCTNNTTA GCACGTTCTG AGTCTGTGGG ATAGCTGCCA TGAAGTAACC 100 TGAAGGAGGT GCTGGCTGGT AGGGGTTGAT TACAGGGTTG GGAACACTCG 150 30 AGANTGGCAT CCTGCATATA CTGGTTAGTG AGG 183 (2) INFORMATION FOR SEQ ID :587: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 280 base pairs 35 (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :587:

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•	AGGTCAAGTC TACAGCTGGA_GACACCCACT TGGGNGNANG AAGATTTTGN	50
	ACAACCGAAT NGTCAACCAT TTTAATTGCT GAGTTTAAGC GCACNTTAAA	100
5	GAAGGACATC AGNGAGAACA AGAGAGCTGT AAGACGCCTC CNTACTGCTT	150
	GTGAACGTGC TAAGCGTACC CTCTCTCCA GCACCCAGGN CAGTATTNAG	200
	NTCGNTCTNT CTATGAAGGA ATCGACTCTN TACTCCATAC CNNNCCGATT	250
10	GAGACTGATG TGACNTTCCT GGGACTGNCA	280
	(2) INFORMATION FOR SEQ ID :588:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 371 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
20	(b) Torobodi. Ilmeal	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :588:	
25	GGTGAAGAAA CTCCAGATAT CAAGGAATTG GGAAATCCTG GGCCAAACCA	50
	CCCCAAGATG ATTACACTGA AATGTAGTAT TAGTACTNCT GCCAGATCTC	100
30	TTTTTAACAT CATGTGCGTC TCTTGGGATC CAGCAAAAGT GTTAAGCCAC	150
30	AATGCCCTTG TGCCTTTTAA TATACCACAG TGCCAGTTAA ACTAATATTT	200
	TNTTTTGTTG CTTTTTGGGG TATTTTCATT AGTATTTCAG CAAATCTCAT	250
35	GATAAAGGNC AAGGNCAAGA ACTNCAGAGN ACTGAGCAGA GAGGCTNGTG	300
	ATGAAANGTG AAGGCTTCNA CTGACTTTAN GCAGTGGCAG TCANGNTACT	350
40	GNGNNGCANG CTTANCTATG A	37:
••	(2) INFORMATION FOR SEQ ID :589:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 184 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(b) TOPOLOGI: Timear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :589:	
10	GAGAGAGAC ACTCCCCTCC ATCCCAGCAC TATGCACAGT TCACGGCTCA	50
	TATGCAAAGT GGAAGACACG TGGGACAAGA GCAAAGCACA AGTGACACAT	100
15	GGTCCCTCTC TAACACCTCA GCACACCAAC CCTGACGCTC CCATCACAGA	150
	TGCTGNTCAT TCTTNCACGG NCCCCTTTTA TAAT	184
20	(2) INFORMATION FOR SEQ ID :590:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 243 base pairs	
	(B) TYPE: nucleic acid	
٠	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :590:	
30	GGGGGCCCGC CGTNCACNCC CCCACACTCT TGGTAGGCAA TGCTTGTCCC	50
	NATATAGTTG NNGTCCTATC GAGTGACACT CTCGTTCATG GATANGGTGN	100
35	GTAAAACCCN TNGTNGCATC CNNATTGGGN GCANTGNGCC TNTCCCCTTN	15
	AANGGTTTTT GCNTNCACTC GACCTNGGGA GGATTCAATG NACNNNCTNG	20
40	CANTGGNCAA GCNTTGNTTG CNNGNATTGA GAACCCNCCA ATT	24
40	(A) TUDADUSTAN DAD ADA TO COS	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 247 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

	(xi) SEQUENCE DESCRIPTION: SEQ ID :591:	
10	ATTCGCCCNN TAAGTAAGTC GTNATTANAC GCGACGNCTA CTACTGAGAC	- 50
	NCGCATGCGC TCTCTCTACA CTAAAGCTCG TCGCTNGNTN ACTTGCGNGN	100
15	NAAAAAACC CCCTGGGNNC GCTTTTCACC CCCAAACTTT CAAATTCCGC	150
	CCCTTTNGGC NANGCCCAAC CANNCCCCCC CCCTTTTTNC CGNCCCANNC	200
20	TTNGGNCNTA ANNATTNAGN CGGNANGNNN GGGCCCCCGG CCAACCC	247
	(2) INFORMATION FOR SEQ ID :592:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 425 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :592:	
·	GGAGGGGAGT AGAGGAAATT TTCATTCTGG AAAAAAATGC ATACTGTTTG	50
35	ATATATTACT CNTCATGCTT TCCACAGATA TTATACACAG ATATTATATT	10
	CCANGGATTA CGTTGCAATG TCTTCAAAAA TAGANAATTC ATTTTATATT	15
40	TCTNGATGAA ATATAATAGT ANCTNNGCTA COTTTGGGAA TGTGACAAAA	20
40	TACTATGATG ATTACAACTC ATTAAAGCAT AAATNTGCAT GATTTAACTN	25

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	CATGTTCCTT CTATGANCTN CGTGGNATAT AGGCATATTT ATTAATGCTA	300
	TTTANGGCNT NNGTGCTTTG TAATGATTCG NCNTTAGGTG AAGGGNTACT	350
. 5	TTTNTNNTNC TTCNTAGTAG ATTNGNTTNN NTCTTTTTAA GAGGANTCNA	400
	NTTTCATGNG TAANCATCAT CTTTT	425
10	(2) INFORMATION FOR SEQ ID :593:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 258 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
•		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :593:	
20	CGCTGCATGC GTCAGCGCNA CGCGACGACA GCGCGCGCGAC	50
•	GCACAAAANA AATGCATGCC AACACGAANA TATGTGCACA CAAACGCAAA	100
25	CGCGTGTGAA CACATGCGCG CNNCGCGCNC GCGATNCAAA GCTGAAATGT	150
	GCNNGNCNGT CGTGNGCGNA AATGTGAAAT GAACAAACAA CAATGAATGA	200
30	ATGAATGTGA AAAAGAGNGN GNTTGAAAAT TNTANAGNNC CCCCCCNTNA	250
	ANCAAAAG	258
·	(2) INFORMATION FOR SEQ ID :594:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 215 base pairs	
	(B) TYPE: nucleic acid	
,	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :594:	•
	GACCCTAACA ATATGTACAA AAATATAAAA TGTAAATAAA AAATACAAAC	50
. 5	AAATTTCCTT TTTAAAGTAC TTTTAAGAAA AAAAGCAGGG CCTTGGAAGT	100
	TTTGGTTCTT TTTTCCTCCC CTGTTGCAAA TTCTCATGGT TTGGGTTGGG	150
10	TGGTGGAGAG CGCGTGTCAT CTGCGGGTGC CTGCCCACGT GGGCGGGCGG	200
10	CTCTCTACTC GAAGG	.215
	(2) INFORMATION FOR SEQ ID :595:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 272 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
20	(2)	
		٠
	(xi) SEQUENCE DESCRIPTION: SEQ ID :595:	
25	GGGGCTGGTT TGGTCATCCG AGATCATTAA AAATGGCTGA CCCTAACAAT	50
:	ATGTACAAAA ATATAAAATG TAAATAAAAA ATACAAACAA ATTTCCTTTT	100
30	TAAAGTACTT TTAAGAAAAA AAGCAGGGCC TTGGAAGTTT TGGTTCTTTT	150
	TTCCTCCCCT GTTGCAAATT CTCATGGTTT GGGTTGGGTG GTGGAGAGCG	200
	CGTGTCATCT GCGGGTGGCA CTGCCACGGT GGGCGGGCGG GCTCTCTACT	250
35	CGAAGGTGAC CACGTTTAGA TT	272
	(2) INFORMATION FOR SEQ ID :596:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 250 base pairs	
	(B) TYPE: nucleic acid	
	• •	

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

- 5	(xi) SEQUENCE DESCRIPTION: SEQ ID :596:	
	GACAAACTGT TGACACCCGG AGGCCTAAAC GAGGATTTCA GCTTCCATTA	50
	TGCCCAACTC CAGTCCAACA TCATTGAGGC GATTAATGAG CTGCTAGTGG	100
10	AGCTGGAAGG GACAATGGAG AACATTGCAG CCCAGGCTCT GGAGCACATT	150
	CACTCCAATG AGGTGATCAT GACCATTGGC TTCTCCCGAA CAGTAGAGGC	200
15	CTTCCTCAAA GAGGCTGCCC GAAAGAGGAA ATTCCATGTC ATTGTAGCAG	250
	(2) INFORMATION FOR SEQ ID :597:	. '
•	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 225 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
÷	(xi) SEQUENCE DESCRIPTION: SEQ ID :597:	
30	CTGCCAAATA CTTTCTTCAC CAACTCATGA GGAGAGGGAA CATGCTGAGA	50
30	AACTGATGAA GCTGCAGAAC CAACGAGGTG GCCGAATCTT CCTTCAGGAT	100
•	ATCAAGAAAC CAGACTGTGA TGACTGGGAG AGCGGGCTGA ATGCAATGAG	150
35	TGTGCATTAC ATTTGGAAAA GATGTGAATC AGTCACTACT GGAACTGCAC	2,00
	AAACTGGCCA CTGACAAAAA TGACC	225
	(2) INFORMATION FOR SEQ ID :598:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 210 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :598:	
10	ACAAAACGCA GATATAAAAA AGTTACAAAG ATTTTTAGAT TTTCATTCAC	50
10	AAAAAAAGTC ATTCACATTT TACACTATAC ACGTTATGAT ATAATACAGG	100
	AAAGTATTAT GTGCATTGTA AGAGAAGGAA AATAGAACTA CTAGATCACA	150
15	CGTGTTGTTC TGTGCTCTAA AATACCTAAA GGTGGATTCA TTTAATGCAA	200
	CACCAGGGAC	210
	(2) INFORMATION FOR SEQ ID :599:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 116 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
		•
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :599:	
30	AAAGGAGTTG AGTACTGTAA ACGCAGAGCT ACATAGAAAA AACGGGCTTC	50
	AAAAATCTGC ACAGAGGTTT GCTTGAGAAT TTAGCTACAC AAATATGTGT	100
35	AGAAGTGAAA AAAAAA	116
	(2) INFORMATION FOR SEQ ID :600:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 107 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :600:	
	ACAGTGTGTG CCCTGTCAGC TCCGCAAATT GGCAGTCACT ACGTTTGTGC	50
10	CCCCTGTAAC CTTGTGATCT TCACTGCCAC TAGCGATGAA GTCTTCATTA	100
10	TGGCCTC	107
	(2) INFORMATION FOR SEQ ID :601:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 173 base pairs	
	(B) TYPE: nucleic acid	*
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	٠.
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :601:	
25	ACTGCTAGTG AAATTCACAT GACTCACAAT TCCCTTTAGC CAATGTTACC	50
.*	GAAGTCAGTG TCAAGAAAAC TTAACAGAAA AAAAAAAGCA CAGAGTGAGT	100
30	TCCTACCATA AAAATCCAGG CTGCCCTGTT TCCTAGCTCT AATATAAGCC	150
	ATTTTCTTTC CTTAGTGTAC CAA	173
	(2) INFORMATION FOR SEQ ID :602:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 216 base pairs	٠
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

	(XI) SEQUENCE DESCRIPTION: SEQ ID :802:	
	GGAAGAGAAC ACATACACGA GGACCAGTAC CTGATGAGGA CAAGAGAGAT	50
5	GGGAANNNGC TGTGGAATTC CTTTCGGCAC CCTGGATGTT AACCCCTGCT	100
	CAGGAAAGGG TGCATCTGTC TTCATCATGC CTCTCTCCC TCCTCCCA	150
10	GCCACCTCCC AAAGGCAGAG CTGCCGCAAC CTGCCTGGCC ATGTGGTGGC	200
10	AAGTACCCAG TAGGAG	, 216
•	(2) INFORMATION FOR SEQ ID :603:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 213 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :603:	
25	GAAAAAACAA TCATGACAGC AACTCTCCTA ACCACAAAAA TCACATATGT	50
	TATCTTTCTT TCAGGACTAA TAATTAATAT TTAAGAGGAA AGCACATCAA	100
30	TTTCTAGGGC CCTTCTTGGG GAAAGGTTCA TATAATTTAG CATACATACA	150
	TATTCAGTGA ATGCATTCAT ATATTACTAT ATAAACACTC TCAGCTACAA	200
	TGGTAATATA ATG	213
35	(2) INFORMATION FOR SEQ ID :604:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 219 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID :604: GACATCTGAT CATCTCACTG GACGCCACAG GGGCAAGAGG GTGGTTTTCC - 5 100 TGAAGCAGCT GGCTAGTGGC TTATTACTTG TGACTGGACC TCTGGTCTCA ATCGAGTTCC TCTACGAGAA CACACCAGAA ATTTGTCATT GCCACTTCAA 150 10 CAAAATCGAT ATCAGCAATG TAAAAATCCC AAACATCTTA CTGATGCTTA 200 219 CTTCAAGAAG AAGAGCTGC (2) INFORMATION FOR SEQ ID :605: 15 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 20 (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :605: 25 AGCGAACACG AGCACAGCGA GCGCACAGAG AGCAGCAGGG AGGGCAGCCA 50 CCGCCGGGAC GCCGGCAGGG GCACGAGAAG GCAAGGAGCG GACACCCGNG 100 104 30 NNGA (2) INFORMATION FOR SEQ ID :606: (i) SEQUENCE CHARACTERISTICS: 35 (A) LENGTH: 189 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 40

(xi) SEQUENCE DESCRIPTION: SEQ ID :606:

•	AATAAAGCAT TCTCACAACC TTTGTTGGGT CAATGATTCC TTTTTACCAC	50
	ANNTACAGAA TCTCCACCAT AGCATCAI.A CCAACTCTGA GGAACTTCGC	100
5	ATAATTCTTA ACTACAAAGA TCCTTCAACA CCCGCATTCT TACAATGTCA	150
	TCGCCGGAAT TTTGAGTGTT CTTTCAATAA CCTACANTA	189
	(2) INFORMATION FOR SEQ ID :607:	
10	A DESCRIPTION OF THE PROPERTY	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 171 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	٠.
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :607:	•
20		
	GGAAAAGNTC ATTACATAAG CACCAAGNCA TTGATTATGA TCCACCGGAA	50
	GAGCTCGTAT TTATCCTTTG CTTTNATNTG AGACCAAGCT AGCCCTGAGT	100
25	AATTTTANNT GGTTCCTAAA ACATATGGCT TATCGTACTC TAAGAAAAAT	150
,	GCCTTACGCA CATTCCTTTN T	171
	(2) INFORMATION FOR SEQ ID :608:	
30		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 184 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :608:	
40	Analy angular deposits the sage and the sage	
	CCARAGOMAC CCAMAMACCO MCCNAMARA CMACCNOMA CCACARACAR	

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315

	TTTCCTACAC ATAAAGTAGT GAGAACATCA TCCTATAACA GGGAACTGTG	100
	ATTATTTAAA AAACGCAGAA CTTATTTATT TGGCTTTAGA AATAACTGCA	150
5	TACAATGTCA TAAGTCGAAA AGAACTCAAA ATAA	184
•	(2) INFORMATION FOR SEQ ID :609:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A)- LENGTH: -191 base pairs-	•
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :609:	
	GGGGACAGCT NNNNNGTTGT TTTGGAGCCT GTTGACTTTG TATTCTCTGC	50
20		
•	CTGTGATTTT CNNTTCTAAA TGAAACTCCA TGTNNNAACC AGGACGAAGN	100
	TGAGAAGGAA AACGCCAAAT GCTTTGGTTA TTAGAGNTTA ATAGGNAAGC	150
25	TCTGTTACAC TAGGTGTAGA GTTCCAGAAT GTTCTTTTGT T	191
.*	(2) INFORMATION FOR SEQ ID :610:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 172 base pairs	
, 50	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(C) SIKANDEDNESS: double (D) TOPOLOGY: linear	
	(b) ToroLogi: Timear	
35		
23		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :610:	
	GCAACTGTGC AAACATCCAT CAGTGTGGAG GAATGGTAAA CTTGGTACAT	50
40		50

GCATGCANTN GNNNCATATT TTTGTGGTTA AGATNNTGAT GTATAGGCAT

	GGAATGTTAT CAAAAGCACA TTAAGTGGTC AAAGCCAGAT ACAGAAGAGT	150
	AGGTATGATT TTATAGGNAT AA	172
5	(2) INFORMATION FOR SEQ ID :611:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 51 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :611:	
	TCCACCTTAC AGACCTGATT TGGCTGCTTC TGACGTCTGT TTCCTAATCT	. 50
	T	51
20		
20	(2) INFORMATION FOR SEQ ID :612:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 60 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	. (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :612:	•
	CGCCTGAAAC TTTGAGGATA AACTTTTTCA AAAAAATAAA ACAGTATCTC	50
35	TTAATCACTG	60
	(2) INFORMATION FOR SEQ ID :613:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 75 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

(D) TOPOLOGY: linear

. 5	(xi) SEQUENCE DESCRIPTION: SEQ I	D :613:	
	TTGAAGCTGG GAGGCAGAGG TTGCAGCGTG CAGA	GTCGTG CCACTGCACT	5(
	CCTGGGCGCA CAGCGAGACT GTCTC		75
10			
	(2) INFORMATION FOR SEQ ID :614:		
	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 25 base pairs	· · · · · · · · · · · · · · · · · · ·	
15	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
20			
	(xi) SEQUENCE DESCRIPTION: SEQ I	D :614:	
	ACGGGATTCT CTTCTTCGGC CGCCA		25
25	(2) INFORMATION FOR SEQ ID :615:		
٠	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 72 base pairs		
	(B) TYPE: nucleic acid	·	
30	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
	(5) 10102001. 1111002		
35	(xi) SEQUENCE DESCRIPTION: SEQ I	D :615:	
	GCAGTGTACT ATGTTCGCAT CTGTGAATAG CCAC	TGCACT CTAGCCTGGA	50
40	TAATATAGTG AGAACCCATC TC		7:
40	(2) INFORMATION FOR SEQ ID :616:		

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 137 base pairs(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :616:	
10		
	TCTAACTGAT TTCAAAGCAA ACTCTCTCTT AATTAGGCTG CCTCTCCAGG	5
	GGAAATTTAG TGGCAGGGTC CCAGTGAGCC TGTAAGAAGT GTTCTACTCA	10
15	CCAGAGTCAC TACTCCAGGT TGAGGACATG AGGCAGG	13
	(2) INFORMATION FOR SEQ ID :617:	
20	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 139 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(5) 10102001. 12cu1	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :617:	
	GCAGGGCAGT CTTGGTGTGC AGCCCCTCTC CTCTCTGTCC CCTGACACTC	5
30		
	CACAGTGTGC CTGCAACCCA AGTGGCCTTA TCCGTGCAGT GGTGGCAGTT	10
	CAGAAATAAA GGGCCCATTT GAGGGATGAC CGCATTCAC	13
35	(2) INFORMATION FOR SEQ ID :618:	
	A LA CROUPIUM CUINDA COMPRAGNACIO	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 178 base pairs	
	(A) LENGTH: 178 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
70	(D) TOPOLOGY: linear	
	(5) 100 000011 110001	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :618:	•
_	TCTTCTTACT ACACTGGAAG TCTGAACTGG GTGCCTGTTA CCGTCGAGGG	5
5	TTACTGGCAG ATCACCGTGG ACAGCATCAC CATGAACGGA GAGGCCATCG	10
	CCTNCNCTGA GGNCNGCCAG GCCATTGTTG ACACCNNCAC CTCTCNNCTG	15
10	ANNNNCCCAA CCAGCCCCAT TNCCAACA	17
V	(2) INFORMATION FOR SEQ ID :619:	
•	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 73 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	٠
· .	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :619:	
25	ACCACCCCTT CCTTTCTTC ATCCAGCACA GCAAGACCAA CGGGATTCTC	5
	TTCTGCGGCC GCCACCGCGT GGA	7
	(2) INFORMATION FOR SEQ ID :620:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 139 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :620:	
40	TGCCTTACAC ACTCAGGGAG ACCTCGGGTT GTACCTAGGC CTAGTGGACA	5
	AACTTTGGTA GAGGGTTCGG TACGACTTAC GACACCTGGC CCTACGTCAT	10

320

AGTCCGTACC CTCAGTAACA GTGTAGTAGC TCTTCCTGT

	(2) INFORMATION FOR SEQ ID :621:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 123 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
		. •
		·
	(xi) SEQUENCE DESCRIPTION: SEQ ID :621:	
		• ,
15	TTCAAAAACA ACTTTATTCA TGACACATAT TAANNNAAAA CCCCACCCCT	50
	GGAAATGAGC TAAAAAAATA AACAAAATCC ACCTCCCACC TCCCTGNNCC	100
•	CACTTCCTCC CATGCCCTCC AAA	123
20		
	(2) INFORMATION FOR SEQ ID :622:	
		-
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 173 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :622:	· ·
	CACCCAAGAC CATCCTTTAT TGTAGTATTA GTTCATGGTA ACTGCATGAA	50
35	AAAACATTTC NNGAGGAATT TTCAATTTCC AGCTTAAAGA ACNNNCCCAC	100
	CAACATAACC AATTTATGAA ANNNAATTCA TTAAAAGGTA TAGAACCTCT	150
	manusura ma a a managa a a a a a a a a a a a a a a a a a	
40	TGTNNNCATG ATGGCAAGGG ACA	173
40	(2) INFORMATON FOR CRO ID (22)	
	(2) INFORMATION FOR SEQ ID :623:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 112 base pairs

, .	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
. 5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :623:	:
10	TTTATTGTAT CATGAGGCAT TGAAACATCT GAATAAATCA ATGTCTGGGC	5
	GGTGAAGGCA GCTGCTTTCT CCTTCACTTC TTTGGGTTAC TAGAGCAACT	10
15	TGTCAGTAGA TT	11
	(2) INFORMATION FOR SEQ ID :624:	. •
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 119 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
25		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :624:	
30	ACTCCTTCTG CCCCCGTTCT TCTAGTGAGA GGGGCGGACA AGGGGGCGGC	5
	GAAAAGAGGA GAAAGAGAG AAACAAGAGT CGAGGGGGAC AGGGGAGTCG	10
	AGGTCTGCAT CCCCTCCCC	11
35	(2) INFORMATION FOR SEQ ID :625:	٠
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 39 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEO ID :625:	
5	AACAGCACGG AGATTGCGTT TATATATCAG ACCAAGCTC	39
5	(2) INFORMATION FOR SEQ ID :626:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 72 base pairs	•
10	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		• :
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :626:	
	CCAGCGCCGA GGTTGTATAT TTCTAGGTGC AGGTATATGA TTGCCATATA	50
20	ATAAAAATCT GAAAACATCC CC	72
	(2) INFORMATION FOR SEQ ID :627:	
	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 153 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		• .
	(xi) SEQUENCE DESCRIPTION: SEQ ID :627:	
35	CCTCCGCCGG AGCTATCTGC ACTACATCCG CAAGTACAAC CGTCTTCGAG	50
	AAGCGCCACA AGAACATGTC TGTACACCTG TCCCCCTGCT TCAGGGACGT	100
	CCAGATCGGT GACATCGTCA CAGTGGGCGA GTGCGGCCTC TAGACAAGAC	. 150
40	AGT	15

(2) INFORMATION FOR SEQ ID :628:

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 108 base pairs	•
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :628:	
10		
	AAAAGAAGTA GGTCGTGTCG TTCTGGTTGC CCTAAGAGAA GAAGANNNCG	50
	GTGGCCACCT CGAGGTTAAG AGGGATATCA CTCAGCATAA TGTTAAGTGA	100
15	CCGGCAGC	108
	(2) INFORMATION FOR SEQ ID :629:	
	(i) CROUPINGE CUADACTEDISTICS.	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 95 base pairs	
20	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :629:	
	TCGCACCACT AGAAANCACC GTGACTGAGA AGAATGATGT GACCTTCAGA	50
30		
	CTTGACCONN GGACAATGNC AGCTCCCAAT GNCCGTCTAG TGGCA	95
	(2) INFORMATION FOR CEO ID .620.	
	(2) INFORMATION FOR SEQ ID :630:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 139 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

	(xi) SEQUENCE DESCRIPTION: SEQ ID :630:	
	CCAGCNCCGA AAAGCCAAGA CTTCATCAAC TACATAGGTC TTACCATTGA	50
5	CCTAAGATCA ATCTGAACTA TCTTAGCCCA GTCAGGGAGC TCTGCTTCCT	100
	AGAAAGGCAT CTTTCGCCAG TGGATTCGCC TCAAGGTTG	139
	(2) INFORMATION FOR SEQ ID :631:	٠ .
10	(:) CROWENCE CUADACMEDICATOS.	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs	•
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	٠.
15	(D) TOPOLOGY: linear	
	(b) Torobodi. Timeat	. •
	(xi) SEQUENCE DESCRIPTION: SEQ ID :631:	
20		
	CCACCGCCC GAGCGAATGT AACCCGGCCT TGGACGACCC GACGCCGGAC	50
	TACATGAACC TGCTGGGCAT GATCTTCAGC ATGTNCNNCC TCATGCTTAA	100
25	GCTGAAGTGG TGTGCTT	117
	(2) INFORMATION FOR SEQ ID :632:	٠
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 161 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :632:	
40	CCAGCNCCGA AAAGCCAAGA CTTCATGAAC TACATAGGTC TTACCATTGA	50
40	CCTAAGATCA ATCTGAACTA TCTTAGCCCA GTCAGGGAGC TCTGCTTCCT	100

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	AGAAAGGCAT CTTTCGCCAG TGGATTCGCC TCAAGGTTGA GGCCGCCATT	150
	GGAAGATGAA A	16:
5	(2) INFORMATION FOR SEQ ID :633:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 97 base pairs	•
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :633:	
	CCTGCNCCGA CGATGCCCAG AATCCAGAAC TTTGTCTATC ACTCTCCCCA	50
	ACAACCTAGA TGTGAAAACA GAATAAACTT CACCCAGAAA AACAAAC	97
20		,
	(2) INFORMATION FOR SEQ ID :634:	•
	(i) SEQUENCE CHARACTERISTICS:	
٠	(A) LENGTH: 178 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(b) 10102001. 11NCa1	
30		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :634:	
	CCAGCNCCGA AGCATTGGAT GCTTGACAAA CTAACGGGTG TATTTGCACC	50
35	TCGTCCATCG ACAGGTCCCC AGAAGCTGAG GGAATGTCTT TCCTCTGATC	100
	TTCTTCCTCA GGAATAGACT CAAGTATGCG TTGACTGGAG ATGAGGTAAA	150
	GAAGATATGT ATGCAACGTT CATTCAAA	178
40	(2) INFORMATION FOR SEQ ID :635:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 90 base pairs

	(B) TYPE: nucleic acid	1	
	(C) STRANDEDNESS: double		
5	(D) TOPOLOGY: linear		
		•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :635:		•
10			•
	CCTGCNCCGA TGCACCCGCC ATCCAGCCTG TCCTTTGGAC	CACGCCACCC	50
			•
	CTCCAGCATG GTCACCGCCA TGGGTTAGAN CCCTGCTCGA		90
•			٠.
15	(2) INFORMATION FOR SEQ ID :636:		
	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 101 base pairs		
	(B) TYPE: nucleic acid		
20	(C) STRANDEDNESS: double		. `
	(D) TOPOLOGY: linear		
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :636:		٠
			,
	CAGGAGACAC AGACAATAGT CACTACATCA CAGCCTTGTT	CTTTCCGAAG	50
	GATAAAATGT CATTCAAGAA TGGGGTGAGG TGGTTAGAGG (GACTAGGTAC	100
30			
·	T	•	101
•			
•	(2) INFORMATION FOR SEQ ID :637:		•
		•	
35	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 70 base pairs		
	(B) TYPE: nucleic acid		•
	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
40			

40

327

	(xi) SEQUENCE DESCRIPTION: SEQ ID :637:	
	CCGAGCACGA GACCCTGATG CACATTCTAA AATAAAAGAA TGATGCACAT	50
- 5	TTTAATAAAG CACAGCACAA	70
	(2) INFORMATION FOR SEQ ID :638:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 160 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :638:	•
	CCGAGCANAN TCTAACCCGG CCTTGGACGA CCCGACGCCG GACTACATGA	50
20		
	ACCTGCTGGG CATGATCTTC AGCATGTGCG GCCTCATGCT TAAGCTGAAG	100
	TGGTGTGCTT GGGTCGCTGT CTACTGCTCC TTCATCAGCT TTGCCAACTC	150
25	TCGGAGCTCG	160
	(2) INFORMATION FOR SEQ ID :639:	
	(i) SEQUENCE CHARACTERISTICS:	
. 30	(A) LENGTH: 138 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
3-		
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :639:	•
	(XI) SECORNCE DESCRIFTION: SEQ ID :037;	
	CCGAACAAAT GTACGGAATG TGTGAGTCCC TCTGGAGCCC AACATGGATC	50

CGGATCACCT GTTTGAAACC ATCTCCCAAG CCATGCTGAA TGCTGTGGGC

	CGGGATGCAT GTGCAGGCAT GGAGTCATTG TCACATCA	138
	(2) INFORMATION FOR SEQ ID :640:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 80 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :640:	
15	CCGACCACCC CTTCCTTTTC TTCGTCCATC CAGCACAGCA	50
•	GATTCTCTTC TGCGGCCGCC ACCGCGTGGA	80
	(2) INFORMATION FOR SEQ ID :641:	
20	(2) INFORMATION FOR SEQ ID .041.	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 100 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
·	(xi) SEQUENCE DESCRIPTION: SEQ ID :641:	
30	AACTAAACTG TTACCTTCCC TCGCTCCACA GAAGAAGACA GCCAGCTTCA	50
	GGGGTCCCTG TTGCTGGCCA AGCCAGTGAG CCTGCTGGGA GGCTGGTCCA	100
35	(2) INFORMATION FOR SEQ ID :642:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 77 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) MODOLOGY 1 incom	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :642:	
	AGAGGACAGA AAGGAACAGA ATGATCTTCC TACNCACAAC ACAAACGTCA	50
· 5	GTTAATGTTC CATCCATGCT GCTTAAA	77
	(2) INFORMATION FOR SEQ ID :643:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 127 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :643:	
	,	
20	CCAGCGCCGA GAGCAGCCC AGTAGCAGCN CATGGCCGGG TCCAACGCCT	50
	ACATCGACAA CCTTCATGGC GGACGGGACC TGTCAGGACN GGCCATCGTG	100
		127
	GGCTACAAGG ACTCGCCCTC CGTCTGG	127
25	(2) INFORMATION FOR SEQ ID :644:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 116 base pairs	
30	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(5) 101020011 1211011	
3.5		,
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :644:	
	GTAGCCAGAC CACAACACCG AGTTGTACCC AGATAGCTGG GATTGGAAGT	50
40	GAGGAGGTTT CTCACCCCAC AGATAACCCA AGACACAAAT GTGCAATTAA	100
	AAGTTTATTT TAGACC	116

(2) INFORMATION FOR SEQ ID :645:

•	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 182 base pairs	
. 5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :645:	•
	CCACCACCC ATTCGTGACC AAGAAGGCTC TGTGCATTCG GGTTTTCCAG	50
15	GAGACTCAAA AGCCGAAGAA GCGAAGAAGA GCCTTAAAGG CTGCAGCAGC	100
	CAGAAAAACA AGCAAAGGAG GAACCCAGAC AGCCCTGCAA AGCATACAAG	150
20	ACACTCAAGA CAGCAATTAA TCTGTCATCA TT	182
20	(2) INFORMATION FOR CRO ID .CAC.	
	(2) INFORMATION FOR SEQ ID :646:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 66 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	 -	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :646:	
	CCAGCGCCGA GGTTGTATAT TTCTAGGTGC AGGTATATGA TTGCCATATA	50
35	ATAAAATCT GAAAAC	66
	(2) INFORMATION FOR SEQ ID :647:	
	(i) CEQUENCE CUADACTERICS	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 93 base pairs	
70	ini bengin. 73 base bairs	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

33:

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :647:	
	CAAGACAATA GTCACATCAT CGCAGCCTTG TTCTTTCCGA AGGATAAAAT	50
	GTCATTCAAG AATGGGGTGA GGTGGTTAGA GGGAGTAGGT ACT	93
10	(2) INFORMATION FOR SEQ ID :648:	
•	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 114 base pairs	
15	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	. •
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :648:	
	CCCCTTTTTG TCCCCACTGA GATGTATGAA GGTTTTGGTC TCCCTGGGAG	50
25	TGGGTGGAGG CAGCCAGGGC TTACCTGTAC ACTGACTTGA GACCAGTTGA	100
	AAAGTGCACA CCTT	114
30	(2) INFORMATION FOR SEQ ID :649:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 81 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :649:	
40	(all sugarnou succellition, sug in 1947.	

CTGCNCCGAC CACCCCTTCC TTTTCTTCAT CCAGCACAGC AAGACCAACG

•	GGATTCTCTT CTGCGGCCGC CACCGCGTGG A	81
	(2) INFORMATION FOR SEQ ID :650:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 159 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
10	(5) 101020011 12	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :650:	
15	AGGAGENECG ACAAAAGACA CATTGGACET GTCAGETECT CTGTTTCACE	. 50
÷	AAGCAGACAC AATAACCTTA CCAACAAAGC AGAGTAAGCC AAGTGCCTCT	100
	GTGTGACACC ACCGCATNNT GATGACGCAT AATAAAAATA TAACTAATTT	150
20	AGACTAGAG	159
	(2) INFORMATION FOR SEQ ID :651:	
25	// \	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 78 base pairs	7
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
.30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :651:	
35	CCGACCACCC CTTCCTTTC TTCATCCAGC ACAGCAAGAC CAACGGGATT	50
	CTCTTCTGCG GCCGCCACCG CTGGAGCT	78
40	(2) INFORMATION FOR SEQ ID :652:	
40	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 198 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :652:	. • .
10	CCGACAGACG GTCATTGATT ACAACGGGGA ACGCACGCTG GATGGTTTTA	50
10	AGAAATTCCT GGAGAGCGGT GGCCAGGATG GGGCAGGGGA TGATGACGAT	100
	CTCGAGGACC TGGAAGAAGC AGAGGAGCCA GACATGGAGG AAGACNATGA	150
15	TCAGAAAGCT GTGAAAGATG AACTGTAATA CGCAAAGCCA GACCCGGG	198
	(2) INFORMATION FOR SEQ ID :653:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 224 base pairs(B) TYPE: nucleic acid	
-	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :653:	
30	CCGAAAAGCC AAGACTTCAT GAACTACATA GGTCTTACCA TTGACCTAAG	50
30	ATCAATCTGA ACTATCTTAG CCCAGTCAGG GAGCTCTGCT TCCTAGAAAG	100
	GCATCTTTCG CCAGTGGATT CGCCTCAAGG TTGAGGCCGC CATTGGAAGA	150
35	TGAAAAATTG CACTCCCTTG GTGTAGACAA TACCAGTTCC ATTGGTGTTG	200
	TTGCTATAAT AACACTTTTC TTTT	22
40	(2) INFORMATION FOR SEQ ID :654:	
4 Ú	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 226 base pairs

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :654:	
		•
	CCGCCTCAGA CTCTGGACCA GCCACTGTCC CAGAAGCCAG GCCGGGCAGT	5
10	GGCCTTCTCC ACTCCCCTCT GACTTCTCCA AGGGGCTCAG TGGCCAGTGC	10
		10
	CCCCCAGGAG GCTCCACCCT CAACTCAACC CAAGCAAGAG GGACAGATGA	15
		r
15	AAAACAAAAT CCAATCAGGG CGATAAATGG CGGGGGGTTT AATTTGGTTT	20
•	GMG14GGG1M 1114GM114G 14GGGM	
	CTGAGCGCAT AAAGCTAAGG AGGGGT	22
	(2) INFORMATION FOR SEQ ID :655:	•
20		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 167 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :655:	
30		
	TTAAAAAAT TCCCCCCTTT AATTGACCAA AGTAAAGCCA TGACATTTCA	5
	TTTGGTAACC TGTTTAGAAT TATAAAAATC ATTTCATTTG GCCCAGCCCA	10
35	TACGCCCAAG AGAAAACTTC CAGACTTTTC TGATGCCATC CAGTTTTGTT	15
		13
	CTTACAAAAT GCATATT	16
•		
	(2) INFORMATION FOR SEQ ID :656:	
40	() () () () () () () () () ()	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs	
	(A) LENGIA: /Z DASE DAITS	

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
·5		
		,
	(xi) SEQUENCE DESCRIPTION: SEQ ID :656:	
	CCACCCTTC CTTTCTTCA TCCAGCACAG CAAGACCAAC GGGATTCTCT	E.C
10	CCACCCCTTC CITTICTICA TCCAGCACAG CAAGACCAAC GGGATTCTCT	50
10	TCTGCGGCCG CCACCGCGTG GA	72
	(2) INFORMATION FOR SEQ ID :657:	•
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 178 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	A COURSE PROPERTY. OF TRACES	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :657:	
25	AGAGGGTTTT CTATATGTAA TTCTTTTATT CTGTAAAAGG TAACAAAATA	. 50
	TACAGAACAA AAAAACTTTC CCTTTTTAAA ACTAATGTTA CAAATCTGTA	100
	TTATCACTTG TATATAAATA GTATATAGCT GATCATTAAT AAGGTGTATA	150
30		
	GTACAATGTA TTCTAAAACT GTTCCGCC	178
	(2) INFORMATION FOR SEQ ID :658:	
35	(i) SEQUENCE CHARACTERISTICS:	
33	(A) LENGTH: 76 base pairs	•
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
40		

	(xi) SEQUENCE DESCRIPTION: SEQ ID :658:	
	CCGACCACCC CTTCCTTTC TTCATCCAGC ACAGCAAGAC CAACGGGATT	50
5	CTCTTCTGCG GCCGCCACCG CGTGGA	76
	(2) INFORMATION FOR SEQ ID :659:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 68 base pairs	
	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :659:	•
	GCCAGCGCCG AGGTCGCATA TTTCTAGGCG CAGGTATATG ACTGCCATAT	50
20	AACAAAAACC NTGAAAAC	68
	(2) INFORMATION FOR SEQ ID :660:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 151 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :660:	
35	CCCAAACTTC TTTAAAAATC AAGTAATGTT TACAAGAAAG AATAAAATCT	50
	TAATCCTTTT CACTTTTAAA GACAATCAGA TAAGATTACC CACTGCGATT	100
40	AAACACTGAT CAAACTCAGT TGTCCTTACG TTAGCATTAC TCTGTCATAG	150
	c	151

	(2) INTOXIMITOR TOR BEG ID	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 245 base pairs	•
- 5	(B) TYPE: nucleic acid	
_	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :661:	
	AGGCACTGAC CCCTGCCACC CCTCACTGCA TTAACTTCAG CCACGTCTCC	50
15	TCCTTCCTCT GCGCTTCCAG TGATAAGGGT ACTGTCCATA TCTTTGCTCT	100
	CAAGGATACC CGCCTCAACC GCCGCTCCGG CCTGGCTCGC GTGGGCAAGG	150
•		
	TGGGGCCTAT GATTGGGCAG TACGTGGACT CTCAGTGGAG CCTGGCGAGC	200
20		
	TTCACTGTGC CTGCTGAGTC AGCTTGCATC TGCGCCTTCG GTGCG	245
	(2) INFORMATION FOR SEQ ID :662:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 72 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
*		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :662:	
35	GCCAGCGCCG AGGTCGCATA TTTCTAGGCG CAGGTATATG ATTGCCATAT	.50
•	AATAAAAACM TGAAAACACC CC	72
	(2) INFORMATION FOR SEQ ID :663:	
40		
	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 88 base pairs

	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :663:	•
	GCCTGCGCCG ACGATGACCA GAATCCAGAA CTTTGCCTAT CACTCTCCCC	50
10	AACAACCTAG ACGCGAAAAC AGAATAAACT TCACCCAG	88
	(2) INFORMATION FOR SEQ ID :664:	
15	(i) SEQUENCE CUMPACTERISTICS.	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 223 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :664:	
25	GCCTGCGCCG ACAAACAAAA CCTGGAGGCC ATTCTGCACA GCCTGCCCGA	50
	GAACTGTGCC AGCTGGCGGT GAGGGCTGCC CAGATCCCCG GCACACACTC	100
30	CCCCACCTGC TGTTTACATG ACCCAGGGGG CGCACACTAC CCCACAGGCG	150
	CGCCCATACA GACATTCCCC GGAGCCGGCT GCTGCGAACT CGACCCCGTG	200
	CGGATAGTCA CACTCCCTGC CGA	223
35	(2) INFORMATION FOR SEQ ID :665:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 70 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	•
•	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :665:	
. 5	GCCAGCGCCG AGGTTGCATA TTTCTAGGCG CAGGTATATG ATTGCCATAT	50
. D	AATAAAATC TGAAAACACC	7(
	(2) INFORMATION FOR SEQ ID :666:	
10	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 118 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(1) - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
	(will epoliphop preceptomical epolity access	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :666:	
20	GCCAGCGCCG ACCGCCCCAA AAATACTCCC ACCGGGATCA GGGCGATTAA	50
	TGAAGACTCA ACGGGGACTA AAAAGGGGCC CCAAAAAAAA CCAAACCACC	100
	TTTCTACGTA CCGTATAG	118
25		
	(2) INFORMATION FOR SEQ ID :667:	
.*	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 88 base pairs	
30	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(5) 10.0201. 11.011	
35		
33	(xi) SEQUENCE DESCRIPTION: SEQ ID :667:	
	GCCAGCGCCG ACGATGCCCA GAATCCAGGA CTTTGCCTAT CACTCTCCCC	50
40	AACAACCTAG ACGCGAAAAC AGAATAAACT TCACCCAG	8

(2) INFORMATION FOR SEQ ID :668:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 59 base pairs

	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
<i>.</i>	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :668:	
10		
	GCCACCGCCG ACTCCAGGCA CTCACTCAAA CTTGATCTTC AACTCTGCAT	- 50
	ACAAGCAGA	59
3.5	(2) TARRODANTION FOR CRO. ID . ((0)	
15	(2) INFORMATION FOR SEQ ID :669:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 223 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
		•
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :669:	
•	GCCTGCGCCG AACAAATATA CAGAATGCGC GAGTCCCTCT GGAAGCCCAA	5
	CATGGATCCG GATCACCTGT TTGAAACCAT CTCCCAAGCC ATGCTGAATG	10
30	CAIGGAICCG GAICACCIGI IIGAAACCAI CICCCAAGCC AIGCIGAAIG	
	CTGCGGACCA GGATGCAGTG CCAGGCATGG GAGTCATTGC CCACATCACC	15
	GAGAAGGACA AAATCACCAC CAGGACACTG AAGGCCCGAA TGGACTCGCC	20
35	CTGCTCCCAG AGCCCACTTT TTT	22
·	(2) INFORMATION FOR SEQ ID :670:	
40	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 37 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	· (c) SIKUNDEDNESS: GORDIA	

(D) TOPOLOGY: linear

. 5	(xi) SEQUENCE DESCRIPTION: SEQ ID :670:
	GCCAGCGCCG AAAACACACA CTTTGCTTCT TACCTGC 3
. •	
	(2) INFORMATION FOR SEQ ID :671:
10	
	(i) SEQUENCE CHARACTERISTICS:
	(A) LENGTH: 37 base pairs
	(B) TYPE: nucleic acid
	(C) STRANDEDNESS: double
15	(D) TOPOLOGY: linear
٠.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :671:
20	
	GCCAGCGCCG AAAACACACA CTCTGCTTCT TACCTGC 3
	(2) INFORMATION FOR SEQ ID :672:
25	() CROUDING OUIDING CONTRACTOR
25	(i) SEQUENCE CHARACTERISTICS:
	(A) LENGTH: 59 base pairs (B) TYPE: nucleic acid
	(C) STRANDEDNESS: double
	(D) TOPOLOGY: linear
30	(b) Torobosi. Timear
	(xi) SEQUENCE DESCRIPTION: SEQ ID :672:
35	GCCACCGCCG ACTCCAGGCA CTCACTCAAA CTCGATCTTC AACTCTGCAT 5
	ACAAGCAGA 5
	(2) INFORMATION FOR SEQ ID :673:
40	
	(i) SEOUENCE CHARACTERISTICS:

(A) LENGTH: 177 base pairs

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5 - ,		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :673:	
	GCCTGCGCCG ANGCATTCCC TTTGACCTGA GTCTGCAGCA GGTCCCTTTT	50
10	GCGCTTCCTT CCCCTCAGGT AGCCTCTCTC CCCCTGGGCC ACTCCCGGGG	100
	GTGAGGGGGT TACCCCTTCC CAGTGTTTTT TATTTCCGTG GGGCTCACCC	150
15	CAAAGTATTA AAAGCAACTT TGCAATT	177
	(2) INFORMATION FOR SEQ ID :674:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 77 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(5) 201020010 2211022	
		-
	(xi) SEQUENCE DESCRIPTION: SEQ ID :674:	
30	GCCTGCGCCG AGCACAAGAC AATGACGAAC ATTTTAAAAA AAAAGAATGA	50
	CGCACATTTT AATAAAGCAC AGCACAA	7
35	(2) INFORMATION FOR SEQ ID :675:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 176 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	

343

	(xi) SEQUENCE DESCRIPTION: SEQ ID :675:	
	GCCAGCGCCG ACACCCAGAG ACTACAGTAC TTAGGGGTTA CACACAACAG	50
5	CCGTAACTGG CGGCTATCTG TTCATAACAA ACAAACCATA GCATATTTAC	100
	ACCGCATCAC ATCGAGTGAT TATAGAAATC CATACACACA CCGATTGCAT	150
10	AAAATCTTTT TTTAGGAAAA AAACAC	176
	(2) INFORMATION FOR SEQ ID :676:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 141 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :676:	
.2.	GCCAGCGCCG ACGCCCAGAG AATACAGTAC TTAGGGGTTA CACACAACAG	50
25	CCGTAACTGG CGGCTATCTG CTCATAACAA ACAAACCACA GCATATCTAT	100
	ACCGTATCAC ATCGAGTGAT TATAGAAATC CACAGAGAGA C	141
30	(2) INFORMATION FOR SEQ ID :677:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 365 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :677:	

CTCTGAACAG ACACGAAGCT GCCCCTCGTA CAGCCACTCG GGCGCTGACC

	ACCAGGGAAG GCAAAGGCAT AGGACTTCCA CACAGTCCAG ACACTGCACG	100
	CTGACAAGCG CCTCCGCGGC GGCTGCGAGC CGGACTCAGG CGGATCTTGA	150
5	CAGCCTTGCC CGCGAGTGCC CGGGGATAGA ACCCGTGCGC GTGGACCTAG	200
	GTGACTGGGA GGCCACCAAG CAGGCACTGG GCAGCGTGGG CCCCGTGGAC	250
	CTGCTGGAGA ACAACACCAC CGTCGCCCTG CCGCAGCCCT TCCAGGAGGT	300
10	CACCAAGGAG GCCTTCGACA GATCCTTTGA GGTGAGCTTG CGTGCGATCA	350
	TCCAGGTGCT GTAGA	365
15	(2) INFORMATION FOR SEQ ID :678:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 366 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :678:	
	GCCTGCCCCG ACACGAAGAT GACCCTCGAC AGCCGCCGGG CGCTGATCAC	50
30	CAGGGAAGGC AAAGGCATAG GACTTCTGCA CGGTCCAGAC CCATGTACGC	100
30	GACGGGCGCC TNCGCGGTGG CTGCGAGCCG GATTCAGGCA GATCTTGACA	150
	GCCTTGCCCG CGAGTGCCCG GGGATAGAAC CCGTGTGCGT GGACCTNGGG	200
35	TGACTGGGAG GCCACCAAGC AGGCACTGGG GTAGCATGGG CCCCGCGGAC	250
	CTGCCGGAGA ACAATACCAC CGCCGCCTNT GCCGCAGTCT TTCCCGGAGG	300
40	TCACCAAGGA GGCCTNTTGA TAGATCTTTT GAGGTGAGCT TGCGTGCGGT	350
40	CATCTAGGTG CTGTAG	366

(2)	INFORMATION	FOR	SEQ	ID	:679:
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(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 253 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	50 100
5 (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(D) TOPOLOGY: linear	
10	
10	
(xi) SEQUENCE DESCRIPTION: SEQ ID :679:	
(XI) Digornor Discontilion. Dig ID (0/).	
GCCTGCCCG ACACGAAGAT GACCCTCGAC AGCCGCCGGG CGCTGATCAC	
decidence hencomment datections adecided edetantene	100
15 CAGGGAAGGC AAAGGCATAG GCCAGCACCG ATGAATTCCC TTTGACCTAA	11111
15 CAGGGAAGGC AAAGGCATAG GCCAGCACCG ATGAATTCCC TTTGACCTAA	200
GTCTGCAGCA GGCCCCTTTT GCGCTTCCTT CCCCTCAGGC AGCCTCTCTC	150
CCCCCGGCC ACTCCCGGGG GCGAGGGGGT TACCCCTTTC CCAGTGCTTT	200
20	
TTATTCCCGC GGGGCTCACC CCAAAGCATT AAAAGCAGCT TTGCAATTCC	250
TTG	253
	,
25 (2) INFORMATION FOR SEQ ID :680:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 294 base pairs	
(B) TYPE: nucleic acid	
30 (C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
35 (xi) SEQUENCE DESCRIPTION: SEQ ID :680:	•
GCCAGCGCCG AGGCTTCTCC TAGGGCTGCT CCTGGGCCTA GCTCTTACAG	50
	•
GCTCGTCCCC CAGGCCTGCC CTTCTCCACT GCCCCCTCCC GTGCCTGGGC	100
40	
CCACACACC TTCAGGAAGG GGGAGCACTG AGAAGCACAG CACAGGGGCT	

•	CAGCCTGGGA TCCGGTGACG GCCTAGGCAG AGGCTGGGCC AGGAGTCCCA	200
	AAGGTCAGTG ACAGTTTCTC AGAAGGGGCC CAGCGTCCAC CTCTCTCCCA	250
5	GGACCAGACA CCCCTTCCAG GCTCCCCCAC CCCCCTACGG GCTC	294
	(2) INFORMATION FOR SEQ ID :681:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 268 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		* :
15		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :681:	
20	CCGCCAAGTG ACACCAAAGC CCTGGTTGAC TTTGACAGCC CCGTGGGCGC	50
	GCGGGAGGCC GGGCACTCTA GGGTCTACCT ACCAGTGCAA TCGTTTAGCG	100
	CTTTTCAGT GGGGCAGGGC AGGAAGCAGG CGGGACCAGG CAGCCAGTTC	150
25	TCAAAGGCTG CGGGGCCAAC TAGAGGCCAC AGCCCCTCAC CCCTAGACAC	200
	TGCCAACCAG AACTGACACG CGACCTCCTG GGCGCTGACG CCATTAAAAC	250
30	CAACGTTGGC GCCCGGCG	268
30	(2) INFORMATION FOR SEQ ID :682:	·
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 354 base pairs	•
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
. '		

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(xi) SEQUENCE DESCRIPTION: SEQ ID :682:

·.	GCCACCGCG AGGAAAACCG TGCACTGTTA GCCATGATCA ACCCCACCGT	50
	GCTCTTCGAC ATTGACATCG ACGGCTGAGC CCTTGACCTA GTCTCCTTTG	100
5	AGCTGTTTGC AGACAAGGTC CCAAAGACAG CAGAAAATTT TCGTGCTCTA	150
	AGCACTGGAG AGAAAGGATT TGGTTATAAG GGTTCCTGCT TTCACAGAAT	200
10	TATTCCAGGG TTTATGCGCC AGGGTGGTGA CTTCACACGC CATAATGGCA	250
10	CTGGTGGCAA GTCCATCCAT GGGGAGAAAT TTGAAGACGA GAACTTCATC	300
	CTAAAGCATA CGGGCCCTGG CATCTTGCCC ATGGCAAATG CTGATCCTGA	350
15	TACA	354
	(2) INFORMATION FOR SEQ ID :683:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 148 base pairs	
	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :683:	
30	CCTCTCCGTG AGGACAGGGC AGTCTTGGTG CGCAGCCCCT CTCCTCTCTG	50
30	TCCCCTGACA CTCCACAGTG CGCCTGCAAC CCAGGCGGCC TTATCCGCGC	100
	AGTGGCGGCA GTTCAGAAAT AAAGGGCCCA TTTGCGGGAT GCCGCATT	148
35	(2) INFORMATION FOR SEQ ID :684:	
	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 307 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :684:	
	AGCACCGAGG CGCTCAAGGT CCTGGGGAAC CCCAAGAGCG ACGAGACGAA	50
5	CGCGAAGGCG CTGGACTTTG AGCACTTTCT GCCCATGCTG CAGACAGTGG	100
	CCAAGAACAA GGACCAGGGC ACCTATGAGG ATTATGCCGA AGGACTTCGG	150
.0	GCGCTTGACA AGGAAGGAAA TGGCACCGTC ATGGGCGCTG AAACCCGGCA	200
	TGCTCTTGCC ACACTGGGCG AGAAGACGAC AGAGGAAGAA GCAGAGACGC	250
	TGGCGGCAGG GCATGAGGAC AGCAATGGTT GCATCAACTA CGAAGCATTT	30
15	GTGAGGC	301
	(2) INFORMATION FOR SEQ ID :685:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 174 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :685:	
30	CCATCTCAAG GCGATCCATG GAAAGCTTCC TGGGGAACGT ATGCTAGCAG	. 5
	AGCTTCTCCC CGTGAATCAC ATGCCGGAGA TCCCACTCTT AGCTGGCAAA	10
	TGAATCCGAA TTGACACAGC AGCCCCATAA GCATCAGCCC TGTAGAGTGA	15
35	GGAGCCATCT CTAGCGGGCC CTTC	17
	(2) INFORMATION FOR SEQ ID :686:	
40	(i) SPOUENCE CHARACTERISTICS:	

(A) LENGTH: 106 base pairs(B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :686:	
. *	ACATGCCAAA GAAAGCGTGC ATATTAGCCT ATAGAACCAC AGTAATCACA	5
		;
10	CTAGAGAAAT TCCACTGCTA CAATAAAATG TAATCGGAAG CATCTTTACT	100
	TATAAA	10
	40. THRONG TON TON ONE TO 400	
15	(2) INFORMATION FOR SEQ ID :687:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 97 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :687:	
4		
.*	CAGATTTTT TCAATTCTCC ACCCGCCAAA AGGGGAAGGG CTTTTCCCCA	5
		•
30	GAGAAAAGGA AAGGGGGAAAA AACCCAACCC AAAACCA	9
30	(2) INFORMATION FOR SEQ ID :688:	
	(2) Intermitted for DDQ ID . 000.	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 172 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	÷ .

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(xi) SEQUENCE DESCRIPTION: SEQ ID :688:

(D) TOPOLOGY: linear

350

GCCTCTCTCT GGGCAAGTTC ATGGCTTCTG TGAGCCCTTT NACTGACCTC

	CAGACACTGT TAGGCTGGAG CCTCGGTAGC CGTTCCTCCT GCCCACTGGA	100
5	CCTTCCAACA GGCCCTCCTC CCCTCCTTGA ACCGGCCCTT CCTGGCCTTT	150
	GAATAGAGTC TAAGCGAACG AC	172
10	(2) INFORMATION FOR SEQ ID :689:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 200 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
÷		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :689:	
20		
	GCCACCGCCG AGCTCACCCC TGCGGTGCAC GCCTTCCTTG GACAAGTTTT	50
		*
•	TGGCTTCTGC GAGCCTTTTA CTGACCTCCA AACGCTGTTA AGCCGGAGCC	100
25	TCGGTAGCCG TTCCTCCTGC CCACTGGACN TCCCAACGGG CCCTCCTCCC	150
	**************************************	200
	CTCCTTGAAC CAGCCCTTCC TGGCCTTTGA ATAAAGTTTA AGCGAGTAGC	200
	(2) INFORMATION FOR SEQ ID :690:	
30	(2) INFORMATION FOR SEQ ID .090.	•
30	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 81 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
35	(D) TOPOLOGY: linear	
	(0)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :690:	
40	<u>-</u>	
•	GCCACCGCCG AGCAGCAGCT TACAGCCAGG GCAGCTTTGA ATGCGGCCCA	50

	ACACAAATTC ACAAGTGNTC TCAAAAAACT C	8.
	(2) INFORMATION FOR SEQ ID :691:	· .
. 5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 217 base pairs	
•	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :691:	
15	TTCCTAACCG ATCGAATGAA GGATTCAAAA TTAACCACTC CAAGGGGGGA	50
	TTGAAGGAAG AACCACTCTT AACGGACAAA AAGAAAGAAA GGGGAGGGAG	100
20	TAACAGGGAT ATGAGCTCTA GCCGCCCAAG CTAGCAATGG CAACCCTTCT	150
20	GGGTCCCCTT TCAGCATGCG GAAGCTTTTC TTCGACTTCA CTCCATAAAC	200
	AGCTGACGCT CAAAAAG	21
25	(2) INFORMATION FOR SEQ ID :692:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 72 base pairs	
-	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(b) Torobodi. Timedi	
•		•
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :692:	
	CGGCCTTCTG GAAACCCATG AAAAAAAAA GTTCCGCACC TCCAAGGGGA	5
40	GAAGAGTAAG AGACAGCTTT CA	7:
40	(2) INFORMATION FOR SEQ ID :693:	•

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(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 329 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

•		
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :693:	
10	TCTGCTGCCG CCCGCAAGCA GAGGGACTCG GAGATCATGC AGGGGAAGCA	5
	GAAAAAGGCA AACAAGAAGA AGGAGGAACC CAAGCAGCTT TGCGGCTTCG	10
15	CGTCCAACCC TCTTGCCCTT CACCTACGCG CCTAGAGCCA GTCCCACCAC	15
	GCTCGCGTTT CCTCCTGTAG CGCTCACAGG CCCCAGCACC GATGGCATTC	20
20	CCTTTGACCT AAGCCTACAG CAGGCCCCTT TTGTGCTTCC TTCCCCTCAG	25
	GCAGCCTCTT TCCCCCTGGG CCACTCCCGG GGGTGAGGGG GTTGTCCTTC	30
	CCGATGCTTT TTGTTACCGT GGGGTTTGC	32
25	(2) INFORMATION FOR SEQ ID :694:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 296 base pairs	
20	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :694:	
	TCTGCTGCCG CCCGCAAGCA GAGGGACTCG GAGATCATGG CCTGCGCCGA	5
40	ACAAATGTAC GGAATGCGTG AGTCCCTCTG GGAGGCC AAA CACGGATCCG	10
	GATCACCTGT TTGAAACCAT CTCCCAAGCC ATGCTGAATG CTGCGGACCA	15

353

	GGATGCAGTG TCAGGCATGG GAGTCATTGC CCACATCATC GAGAAGGACA	200
	AAATCACCAC CAGGACACTG AAGGCCCGAA TGGACTAACC CTGTTCCCAG	250
. 5	AGCCCACTTT TTTTTTTTT TTGGAAATAA AATAGCCTAT CTTTCG	296
	(2) INFORMATION FOR SEQ ID :695:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 211 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :695:	
20	GCCAGCACCG ACCTAGCCTA AGCCGTCTAG AACCACCTAA GCCCCTAAGG	50
20	AAACCTGTGG TCACACTGGG CCCTCCTCAG GAACTCTCCC TGCGCAGAGG	100
	CGTGTCTTAG CACTAACCTC CTCCCTAGCC CCTTATTTGG TGGCAGAAGT	150
25	GGCCTCCACC CCTTCACCGT TTAAAAATAC TCCGTGGAGA AAAGAAAGCT	200
	TNAAGGAGTA G	211
•	INANGONGIA	211
30	(2) INFORMATION FOR SEQ ID :696:	
. 30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 92 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :696:	
40		

GCCTGCACCG ACAATGCCCA GAACTCCAGA ACTTCACCTA TCACGTATCC

	CCAACACAC AGACGGCGAA AACAAAACAA ACIIAAACCI AG	92
	(2) INFORMATION FOR SEQ ID :697:	
5	(i) SEQUENCE CHARACTERISTICS:	
_	(A) LENGTH: 314 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		*
	(xi) SEQUENCE DESCRIPTION: SEQ ID :697:	
15	GCCAGCACCG AGGCCTAGGG TAGAGCAGAC TGTGGCTTTA CCTCGGTGTC	50
	CTACCAGCAA GGGGTCCTAT CTACCACCAT CCTCTATGAG ATCCTGCTAG	100
	GGAAGGCCAC CCTGCATGCT GCGTTGGTCA GCACCCTTGC GCTGATGGCC	150
20	ATAGTCAAGA GAAAGGATTT CTGAAGGCAG CCCTAGAAGC GGAGTTAGGA	200
	GCTTCTAACC CGTCATGGTT TAAATACACA CCCTTTTTTG GACAGCGCTT	250
25	CTGAAGAGCT GCTCTTACCT CTCTGCATCC CAATAGATAT CCCCCTATGC	300
	GCATGCGTAC CTGT	314
	(2) INFORMATION FOR SEQ ID :698:	
30	A LA CROUDNER CUARACTER CONTRACTOR	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 198 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(8) 101000011 12.11000	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :698:	
40		•
	GCCACCGCCG AGTTCACCCC TGCAGTGCAC GCCTCCCTGG ACAAGTTCCT	50

355

	GGCTTCTGTG AGCACCGTGC TGACCTCCAA ACACCGTTAA GCTGGAGCCT	.00
	CGGTAGCCGT TCCTCCTGCC CACTGGACTC CCAACAGGCC CTCCTCCCCT 1	50
5 .	CCTTGCACCG GCCCTTCCTG GTCTTTGAAT AAAGTCTAAG CGGGCAGC 1	98
	(2) INFORMATION FOR SEQ ID :699:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 230 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :699:	
20	GCCAGCACCG ACAGCAACAA AAATGTTCCC ACAGAGATCA GGATGACTTG	50
20	CTGAAGCTCA GTGGAGGCTA AAAAGAGGAC ACAAAAGTGA ACAGAATGAC	100
	CTTCCTACGC ACAACACAAA CACCAGTTAA TGCTCCATCC ACGCTGCTTA	150
25	AAGAGCATTC CTGTCCTAGC AAAATGGGCA AGTCCCTCTA CCCCCCACCC	200
	TTAGCCGGCA TGCTTACATT AATAGCTAGA	230
•	(2) INFORMATION FOR SEQ ID :700:	
30		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 282 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID :700:

40

AGCAACAAAA ATGTTTCCAC GGAGATCAGG ATGACTTGCT GAAGCTCAGT

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	GGAGGCTCAA AAGAGGACAC AAAAGTGAAC AGAATGATCT TCCTACGCAC	100
	AACACAAACA TCAGTTAATG CTCCATCCAC GCTGCTTAAA GAGCATTCCT	150
5	GTCCTAGCAA AATGGGCAAG TCCCTCTACC CCCCACCCTC ACTTGGCATG	200
	CTTACATTAA TAGCTAAAGT CAATCCTGTA ATGAAATAAA GCAAATGGCA	250
10	GCTGTCTAGT AGCCTCCACT ACCGCAAATA TC	282
10	(2) INFORMATION FOR SEQ ID :701:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 255 base pairs	
15	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :701:	
	GCCTGCGCCG AACAAACGCA CGGAATGAGC GAGTCCCTCT GGGAGCCCAA	50
25	CATGGATCCG AATCACCTGT TTGAAACCAT CTCCCAAGCC ATGCTGAATG	100
	CTGCGGACCA GGATGCAGTG CCAGGCATGG GAGTCATTGC CCACATCACC	150
30	GAGAAGGACA AAATCACCAC CAGGACACTG AAGGCCCGAA TGGACTAACC	200
30	CTGTTCCCAG AGCCCACTTT TCCCCTATTT TGGAAATAAA ATAGCCTGTC	250
	TTTCG	25
35	(2) INFORMATION FOR SEQ ID :702:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 89 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :702:		
	GCCTGCGCCG AGCACAAGAC AATGATGAAC ATTCTAAAAA AAAAGAATGA		50
5	CGCACATTTT AATAAAGCAC AGCACAAACT GTTCTTTCC		89
	(2) INFORMATION FOR SEQ ID :703:		
10	(i) SEQUENCE CHARACTERISTICS:	.*·	
	(A) LENGTH: 96 base pairs		
	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
15			
-			
	(xi) SEQUENCE DESCRIPTION: SEQ ID :703:		
20	GCCAGCGCG AGATCCTGGC GGCCTACCGC CCCCGCCGC ACCCCCGCTA		50
	GCGCCCCACC CCGCGTCTAT CGCCCAATAA AGGCATCTTT GTCGGG		96
25	(2) INFORMATION FOR SEQ ID :704:		
	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 123 base pairs		
	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double	•	
30	(D) TOPOLOGY: linear	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :704:		
35	GCCTGCGCCG AACAAACATA CAGAACGCAA CGAGTCCCTC TGAAGGCCCA		50
	ACACGGATCC GAATCACCTG GCCCGAAACC ACCTACCTAG CCATGATGA	.	100
40	TGCTGAGGAC CCAGATGCAG TAC		12:

(2) INFORMATION FOR SEQ ID :705:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 262 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :705:	· .
10	GCTTGATGCC TGCGCCGAAC AAACATACAG AATGCGGCGA GTCCCTCTGG	50
•	ACGCCCAACA CGGATCCGGA TCACCTATCT GAAACCATCT CCCAAGCCAT	100
15	GCTGAATGCT GCGGACCAGG ATGCAGTGCC AGGCATGGGA GCCATTGCCC	150
	ACATCACCGA GAAGGACAAA ATCACCACCA GGACACTGAA GGCCCGAATG	200
20	GACTAACCCT GTTCCCAGAG CCCACTTTTT TTCTTTTTCA GAAATAAAAC	250
20	AGCCTGTCTT TC	262
	(2) INFORMATION FOR SEQ ID :706:	
25	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 209 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :706:	
35	GCCAGCACCG ACCTAGCCTA AGCCGTCTAA AACCACCTGA GCCCCTGAGG	5
	AAACCTGTGG TCACACTGGG CCCTCCTCAG GAACTCTCCC TGCGCAGAGG	10
40	CGTGTCTTAG CACTGCCCCC CTCCCTAGCC CCTTATTTGG CGGCGGAAGC	15
70	GGCCTCCACC CCTTCCCTGT TTGCAAACAC TCTGCGGAGA AAAGAGGACT	20

	TCAGGGAGT	20
	(2) INFORMATION FOR SEQ ID :707:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 170 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :707:	
.*		
15	GCCAGCACCG AGATGACGAG CTTTCTGCTG CCACCCACAA GCAGAGGGAC	50
	TCGGAGATCA CGCAGCAGAA GCAGAAAAAG GCAAACAAGA AGAAGGAGGA	100
20	ACCCAAGCAG CTTTGCGGCT TCACGCCCAA CCCTCTCGCC CTTCACCTGT	150
20	GAGCCTGGAG CCAGTCCCAC	170
	(2) INFORMATION FOR SEQ ID :708:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 160 base pairs	
<i>:</i>	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :708:	
35	GCCACCGTCG AGGATTCAGC AGCCTCCCCC TTGAGCCCCC TCACTTCCCG	5
	ACGITCCGIT TCCCCCTGCC CGCCTTTTTC CGCCACCACC GCCGCCGCCT	10
	TCTGCAGGCC GTTTCCACCG AGGAAAAGGA ATCGTATTGT ATACCCGCTA	15
40	CCCAGAACCT	16

	(2) INFORMATION FOR SEQ ID :709:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 51 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :709:	•
	GCCAGCACCG AGCAACCTGG GTCCAAATAA AAACTAAACT	5.0
•		
15	G.	51
	(2) INFORMATION FOR SEQ ID :710:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 64 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :710:	
	(XI) SEQUENCE DESCRIPTION. SEQ 15	
	GCCTGCGCCG ACCACCCCTT CCTTTTCTTC ATCCAGCACA GCAAGACCAA	50
30		•
	CAGGATTCTC TTCT	64
	(2) INFORMATION FOR SEQ ID :711:	
35		
	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 104 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :711:	
	CCAGCCAAAG ATTCCCAGGC TTTCTTGTCT CAGCAACTTT CCCATCTTCT	50
5	CTCTCTTGGA TGATGTTTGC CGTCAGCATT CACCAAATAA ACTTGCTCTC	100
	TGGG	104
10	(2) INFORMATION FOR SEQ ID :712:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 68 base pairs	
	(B) TYPE: nucleic acid	
÷	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :712:	
20		
	CTAGAAATAG ACCCACAATT TAGAGACAAT CTATACTAGA TTTATCTCCT	. 50
	TTGTTTTTAG TTGAAGGC	68
25	(2) INFORMATION FOR SEQ ID :713:	•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 127 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :713:	•
•	AGCGAATGTA AGGGGGCCTT GGACGACCCG ACGCCGGACT ACATGAACCT	50
•	GCTGGGCATG ATCTTCAGCA TGTGCGGCCT CATGCTTAAG CTGAAGTGGT	100
40		
	CTCCTTCCCT CCCTCTCTAC TCCTCTT	127

•	(2) INFORMATION FOR SEQ ID :714:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 90 base pairs	-
. 5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :714:	
	CTTGGGAGAT AACAGTTTCC CCTCTCCCTC CCCCTGCAGA TTTCCAGCGC	50
15	CCGGACCAAG GCCAAGTAAG CCTCTACAAA CCTAGCATTT	90
	(2) INFORMATION FOR SEQ ID :715:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 69 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :715:	
•		
30	CCAGCGCCGA GGTTGTATAT TTGTAGGTGC AGGCACACGA CCAGGACACA	50
50	ACAAAATCT GAAAACATC	. 69
	(2) INFORMATION FOR SEQ ID :716:	4
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 102 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

	(xi) SEQUENCE DESCRIPTION: SEQ ID :716:	
	GCCGAGGAGA ACCCCCGCTC CCTGAGGAGG ACCTGTCCAA ACTCTTCAAA	. 50
5	CCACCACAGC CGCCTGCCAG GATGGACTCG CTGCTCATTG CAGGCCAGAT	100
	AA	102
. *		
	(2) INFORMATION FOR SEQ ID :717:	÷ .
10		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 124 base pairs	
	(B) TYPE: nucleic acid	
1	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
•		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :717:	
	AGCGAATGTA ACCCGGCCTT GGACGACCCG ACGCCGGACT ACATGAACCT	. 50
	GCTGGGCATG ATCTTCAGCA TGTGCGGCCT CATGCTTAAG CTGAAGTGGT	100
25	GTGCTTGGGA TACGCTGTCT ACAG	124
٠	(2) INFORMATION FOR SEQ ID :718:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 123 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(0)	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :718:	
40	GGAAAACCGT GTACTATTAG CCATGGTCAA CCCCACCGTG TTCTTCGACA	50
70	TTGCCGTCGA CGGGAGCCCT TGGCGCGCGT CTCCTTTGAG CTGTTTGCAG	100

	ACAAGGTCCC AAAGACAGCA GAA	123
	(2) INFORMATION FOR SEQ ID :719:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 54 base pairs	•
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :719:	-
15	ACCACCCCTT CCTTTCTTC ATCCAGCACA GCAAGACCAA CGGGATTCTC	50
	TTCT	54
	(2) INFORMATION FOR SEQ ID :720:	
20		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 117 base pairs	
	(B) TYPE: nucleic acid	
0.5	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :720:	
30	GACCACAGGG CCTTCAATCC TTTTTTGTTT TCAACAGTCT TGCTGAATTA	50
	AGCAGAAAGG GCCTTGAATC CTGGCCTGGA ATTTGGGCAG ATATAGCATT	100
35	AATAAAACTG TGCACTC	117
	(2) INFORMATION FOR SEQ ID :721:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 55 base pairs	
	(B) TYPE: nucleic acid	

(C) STRANDEDNESS: double

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(D) TOPOLOGY: linear

.5	(xi) SEQUENCE DESCRIPTION: SEQ ID :721:	
	GACCACCCT TCCTTTCTT CATCCAGCAC AGCAAGACCA ACGGGATTCT	50
	CTTCT	55
10	(2) INFORMATION FOR SEQ ID :722:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 92 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :722:	
	GACTTCACGA ACTACACAGG TCTTACCATT GACCTAAGAT CAATCTGAAC	50
25	ATTCTTAGCC CAGTCAGGGA GCTCTGCTTC CTAGAAAGGC AT	92
	(2) INFORMATION FOR SEQ ID :723:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 55 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :723:	
	TATTTCTAGG TGCAGGTATA TGATTGCCAT ATAATAAAAA TCTGAAAACA	50
40	·	

TCCCC

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(2)	INFORMATION	FOR	SEO	ID	:724:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 164 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 10 (xi) SEQUENCE DESCRIPTION: SEQ ID :724: GTGTACTATT AGCCATGGTC AACCCCACCG TGTTCTTCGA CATTGCCGTC 50 100 GACGGGCGAG CCCTTGGCGC GCGTCCTTTG AGCTGTTTGC AGACAAGGTC 15 CCAAAGACAG CAGAAAAATT TTTCGTGCTC TGAGCACTGG AGAGAAAGGA 150 164 TTTGGTTATA AGGG 20 (2) INFORMATION FOR SEQ ID :725: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs (B) TYPE: nucleic acid 25 (C) STRANDEDNESS: double (D) TOPOLOGY: linear 30 (xi) SEQUENCE DESCRIPTION: SEQ ID :725: GTGAGAAGCT GCAGCGGTGA CCTGGAGGCT GCGATGTGGA GGTGGAGGAC 50 ACACCCTCAA CCGTTGCTCC TGTAGCTTCC GAGTCCTGGT GGTGTCGGCC 100 35 110 **AAGTTCAGTA** (2) INFORMATION FOR SEQ ID :726

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 163 base pairs

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(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
5		
		٠
·	(xi) SEQUENCE DESCRIPTION: SEQ ID :726:	
	CCGTGTACTA TTAGCCATGG TCAACCCCAC CGTGTTCTTC GACATTGCCG	5
10	magnesses agammagaga agamamam managamam agnesses	10
	TCGACGGGAG CCCTTGGCGC GCGTCTCCTT TGAGCTGTTT GCAGACAAGG	10
	TCCCAAAGAC AGCAGAAAAT TTTCGTGCTC TGAGCACTGG AGAGAAAGGA	15
15	TTTGGTTATA AGG	16
	(2) INFORMATION FOR SEQ ID :727:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 105 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
,	(D) TOPOLOGY: linear	
0.5		
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :727:	
	(XI) SEQUENCE DESCRIPTION. SEQ ID . 727.	
	GAGGGCGAGT TCGAGGAGGA GGCTGAGGAG GAGGTGGCCT AGAGCCTTCA	5
30		
	GTCACTGGGG AAAGCAGGGA AGCAGTGTGA ACTCTTTATT CACTCCCAGC	10
	CTGTT	10
35	(2) INFORMATION FOR SEQ ID :728:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 186 base pairs	
40 [°]	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
70	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :728:	
:	GCCAGCGCCG AAAAGCCAAG ACTTCATGAA CTACACAGGT CTTACCATTG	50
5	ACCTAAGATC AATCTAAACT ATCTTAGCCC AGTCAGGGAG CTCTATTCCT	100
	AGGAAGGCAT CTTTCGCCAG TGGATTCGCC TCAAGGTCGA GGCCGCCACT	150
10	GGAAGACGAA AAATAGAACT CCCTTAGAGT AGACAA	186
	(2) INFORMATION FOR SEQ ID :729:	
	(i) SEQUENCE CHARACTERISTICS:	:
15	(A) LENGTH: 167 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :729:	•
	GCCAGCGCCG AGGTTGCATA TTCTAGGCGC AGGTATATGA TTGCCATATA	50
25	ATAAAAACCT GAAAACATCC CACCCGGGAA AAAAAAAAAA	100
	AAAAACACCC CCCCCCACA AAAAACTCAA ATTCCCCTCC CAAAAAAACCC	150
30	CCTCAAAATC AAAAAAC	167
	(2) INFORMATION FOR SEQ ID :730:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 64 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

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(xi) SEQUENCE DESCRIPTION: SEQ ID :730:

	GCCTGCGCCG ACCACCCCTT CCTTTTCTTC ATCCAGCACA GCAAGACCAA	50
	CAGGATTCTC TTCT	64
	(2) INFORMATION FOR SEQ ID :731:	
5	(2) INFORMATION FOR SEQ ID :/31:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 96 base pairs	
	(B) TYPE: nucleic acid	1.
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
:		
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :731:	
•	GCCAGCGCCG AGACCCTGGC GGCCTACCGG CCCCCGTGC ACCCCCGCTA	50
	GCGCCCCACC CCGCGTCTAT CGCCCAATAA AGGCATCTTT GCCGGG	96
20		
	(2) INFORMATION FOR SEQ ID :732:	
•	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 84 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :732:	
	GCCTGCGCCG ACCACCCCTT CCTTTTCTTC ATCCAGCACA GCAAGACCAA	50
35	CAGGATTCTC TTCTGCAGCC GCCACCGCGT CGGA	84
	(2) INFORMATION FOR SEQ ID :733:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 96 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS, double	

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :733:	
	GCCAGCGCCG AGATCCTGGC GGCCTACCGG CCCTCAGTGC ACCCCCGCTA	50
	GCGCCCCACC CCGCGTCTAT CGCCCAATAA AGGCATCTTT GCCGGG	96
10	(2) INFORMATION FOR SEQ ID :734:	
	(i) SEQUENCE CHARACTERISTICS:	٠.
	(A) LENGTH: 96 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		-
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :734:	
	GCCAGCGCCG AGATCCTGGC GGCCTACCAG CCCTCCGTGC ACCCCCGCTA	50
25	GCGCCCCACC CCGCGTCTAT CGCCCAATAA AGGCATCTTT GCCGGG	96
	(2) INFORMATION FOR SEQ ID :735:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 97 base pairs	•
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :735:	
	GCCAGCGCCG AGATCCTGGC GGCCTACCAG CTCCTCAGTG CACCCCCACT	50
40	ACCACCCAC CCCCCATCTA TCGCCCAATA AAGGCATCTT TGCCGGG	9.

	(2) INFORMATION FOR SEQ ID :736:		
	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 127 base pairs	.'	
5	(B) TYPE: nucleic acid	•	
	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		•
10			•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :	736:	
		•	
	GCCAGCGCCG ACCACAGGGC CTTGAATCCT TTTTTGT	TTT CAACAGTCTT	50
		arr mmmaccara	100
.15	GCTGAATTAA GCAGAAAGGG CCTTGAATCC TGGCCTA	IGAA TTTGGGCAGA	100
			107
	TACAGCATTA ACAAAACCGC GCATCTC		127
	(2) INFORMATION FOR SEQ ID :737:		
20	A CHANGE GUNDIGHT CHILD	*	
	(i) SEQUENCE CHARACTERISTICS:		•
	(A) LENGTH: 64 base pairs		
	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		•
25	(D) TOPOLOGY: linear		
	· ·		
		v	
÷	(xi) SEQUENCE DESCRIPTION: SEQ ID	:737:	
30			
	GCCTGCGCCG ACCACCCCTT CCTTTTCTTC ATCCAG	CACA GCAAGACCAA	50
•		•	
	CAGGATTCTC TTCT		64
•			
35	(2) INFORMATION FOR SEQ ID :738:		
	(i) SEQUENCE CHARACTERISTICS:		•
	(A) LENGTH: 88 base pairs		
	(B) TYPE: nucleic acid		
40	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		

	(xi) SEQUENCE DESCRIPTION: SEQ ID :738:	
	GCCAGCGCCG ACAATGCCCA GAATCCAGAA CTTTGCCTAT CACTCTCCCC	50
5	TO COOK	88
	AACAACCTAG ACGCGAAAAC AGAATAAACT TCACCCAG	00
	(2) INFORMATION FOR SEQ ID :739:	
10	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 95 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	:
•	(D) TOPOLOGY: linear	
15		
. *		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :739:	
20	GCCAGCGCCG AGATCCTGGC GGCCTACCGC CCCCCGTGCA CCCCCGCTAG	50
20		
	CGCCCCACCC CGCGTCTACC GCCCAATAAA GGCATCTTTG CCGGG	95
	(2) INFORMATION FOR SEQ ID :740:	
25	A CONTRACT OF THE CONTRACT OF	
	(i) SEQUENCE CHARACTERISTICS: •(A) LENGTH: 245 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
30	(2) 20102000	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :740:	
35		
	GCCACCCGA AGACGTATCA AGGCCCTCGA ACAACCCCGA GAGCTGATGA	50
	GATGAATGAG AAGATGCCGA ACTTTGCGCA CTCCATGCCC CTGCTGCAGA	100
	GATGAAIGAG AAGAIGCCGA ACIIIGCGCA CICCAIGCCC CIGCIGCAGA	
40	CAGTAACCAA GAGCAAGGAC CAGGGCACCC ATGAGGATTA TGTCGAAGGA	150
	COMPAGE CONTROL TO A CONTROL ACCOUNTED ACCORDING CONTROL CONTR	200

	CCGGCATGTT CTTGTCACAC TGGGTGAGAA GATGACAGAG GAAGA	245
	(2) INFORMATION FOR SEQ ID :741:	
. 5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 88 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :741:	
15	GCCTGCGCCG ACGATGCCCA GAATCCAGAA CTTCGTCTAT CACTCTCCC	50
	AACAACCTAG ATGTGAAAAC AGAATAAACT TCACCCAG	88
	(2) INFORMATION FOR SEQ ID :742:	
20		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 242 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :742:	
30	GCCGGAGCCA AAGCAAGCCA GAAGACTAAC AGTACTAACT ACAAATATTC	50
	GCACCTCGAT CGCAGTACCC AGGTTCTCAC GTAGCTGAAG NAATGTATTA	100
35	CTCTGATAGT CTTCATTCGG ATAGACTAAA GCGTGTGCTG ACTGGAGATG	150
	AGGTAAAGAA GATATGTATG CAACGTCCAG TCAAAACGGA TGGCAAGGTT	200
	CGAGTCATGT CATATACCTT GCTGGATTAA TGGATGTCAT TA	242
40	(2) INFORMATION FOR SEO ID :743:	

(i) SEQUENCE CHARACTERISTICS:

•	(A) LENGTH: 64 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :743:	
10		٠.,
	GCCTGCGCCG ACCACCCCTT CCTTTTCTTG ATCTAGCACA GCAAGACCAA	50
	CGGGATTCTC TTCT	64
15	(2) INFORMATION FOR SEQ ID :744:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 69 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :744:	
•		,
,	GCCAGCGCCG AGGTTGTATA TTTCTAGGTG CAGGTATATG ATTGCCATAT	50
	AATAAAATT TGAAAACAT	69
30		
	(2) INFORMATION FOR SEQ ID :745:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 74 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(I) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID :745:

	GCCAGCTCCG AGGTTGTATA TTTCCAGGTG CAGATATATG ATTGCCATAT	50
	AATAAAAATC TGAAAACATC CCAC	74
5	(2) INFORMATION FOR SEQ ID :746:	
•	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 88 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
:		
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :746:	
	GCCTGCGCCG ACGATGCCCA GAATCCAGAA CTTTGTCTAT CACTCTCCCC	50
20	AACAACCTAG ATGTGAAAAC AGGATAAACT TCACCCAG	88
20	(2) INFORMATION FOR SEQ ID :747:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 88 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :747:	
	GCCTGCGCCG ACGATGCCCA GAATCCAGAA CTTTGTCTAT CACTCTCCCC	50
•		
35	AACAACCTAG ATGTGAAAAC AGAATAAACT TCACCCAG	88
	(2) INFORMATION FOR SEQ ID :748:	
•	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 178 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

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(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :748:	
	GCCAGCACCG ATGAATTCCC TTTGACCCAA GTCTGCAGCA GGTCCCTTTT	.50
	GCGCTTCCTT CCCCTCAGGC AGCCTCTTTC CCCCTGGGCC ACTCCCGGGG	100
10	GCGAGGGGC TACCCCTTTC CCAGGCTTTT TATTCCCGTG GGGCTCACCC	150
	CAAAGCATTA AAAGCAGCTT TGCAATTC	178
15	(2) INFORMATION FOR SEQ ID :749:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 235 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :749:	
	GCCAGCACCG AAAAGCCAAG ACTTCATGAA CTACACAGGT CTTACCATTG	50
30	ACCTAAGATC AATCTGAACT ATCTTAGCCC AGTCAGGGAG CTCTATTCCT	100
30	AGAAAGGCAT CTTTCGCCAG TGGATTCGCC CCAAGGTTGA GGCCGCCATT	150
	GGAAGACGAA AAATTGCACT CCCTTGGCGC AGACAAACAC CAGTTCCCAT	200
35	TGGCGCTGCT GCCTATAACA AACACTTTTT TTTTT	23
	(2) INFORMATION FOR SEQ ID :750:	
	(;) CROHENCE CUNDACTEDISTICS.	

(A) LENGTH: 87 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :750:	
	GCCTACGCCG AAAACCCCTT CCTTTTTTC ATCCAGAAAA GCAAGAGAAA	50
	AAGGATTCTC TTCTGCGGCC GCCAACGCGT CGGAGAT	87
10	(2) INFORMATION FOR SEQ ID :751:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 170 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :751:	•
	GCCTCCGCCG ATTCGTGACC AAGAAGGCTC TATGCATTCA GGCTTTCCAG	50
25	GAGACTCAAA AGCTGAAGAA GCAAAGAAGA GCCTTAAAGG CTGCAGCAGC	100
	AGTCCNAAAA ACAAGCAGAG CAGAGGAACC CAGACAGCCC TGCCAAAGCC	150
	ATGCCAAAGA CACTCAAAGA	170
30	(2) INFORMATION FOR SEQ ID :752:	
•	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 72 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

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(xi) SEQUENCE DESCRIPTION: SEQ ID :752:

	GCCAGCACCG AGGTTGCATA TTTCTAGGCG CAGGCATATG ATTGCCATAT	50
	AATAAAAAA TGAAAACACC CC	72
5	(2) INFORMATION FOR SEQ ID :753:	
	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 122 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		-
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :753:	•
	GCCAGCGCG AGGACACCAA GAAGGTTTTG GACAGCGTGG GCATCGAGGC	50
20	GGACAACAAC CAGCTCAACA AGGCCATTAG TGAGCTGAAT GAAAAAAACA	100
	TTGAAGACGT TATTGNCCAG GA	122
	(2) INFORMATION FOR SEQ ID :754:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH 243 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :754:	
35	GCCACCGCCG ACTGAAACTG CACCGACCCC CCCTCGAGGA CCTGCTCTTA	50
·	GGTTCAGAAG CAAACCTCAC GTGCACACTG ACCGACCTAA GAGACGCCTC	100
40	AGGCGCCACC TTCACCTGGA CACCCTCAAG CGGGAAGAGC ACTGTTCAAG	150
40	GACCACCTAA GCATGACCTC TACGGCTGCT ACAGCGTGTC CAGTGCCCTG	200

	CCGGGCTGCG CCGAGCCATG GAACCATGGG AAGACCTTCA CTT	243
	(2) INFORMATION FOR SEQ ID :755:	
· 5	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 71 base pairs	
	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :755:	
15	GCCAGCGCCG AGGTTGCATA TTTCTAGGCG CAGGCATATG ATTGCCATAT	50
•	AACAAAACC TGAAAGCATC A	71
-	(2) INFORMATION FOR SEQ ID :756:	
20	(-)	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 243 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :756:	
30		
	GCCACCGCCG AGTGACGCCA AAGCCCTTGG TTGACTCTAA CAGCCCCGTG	50
•		. 100
	GGCGCGGGG AGGCCGGGCG CTCTAGGGTC TACCTATCAG CGCAATCGTT	100
35	TAGTGCTTTT TCAGTGGGGC GGGGCGGGAA GCAGGCGGGA CCAGGCAGCC	150
.*	AGTTCTCAAA GGCTGCGGGG CCGACTAGAG GCCACAGCCC CTCACCCCTA	200
40	GACGTCGCCA ACCAGAACTG ACGCGCGACC TCCTGGGCGC TGA	243
	(A) THRODUNGTON DOD CDO TD .757.	

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGIN: 04 Dase parts	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
		•
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :757:	
10		•
	GCCTGCGCCG ACCACCCCTT CCTTTTTTTT ATCCAGCACA GCAAGACCAA	50
	CAGGATTCTC TTCC	64
15	(2) INFORMATION FOR SEQ ID :758:	
	-	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 243 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :758:	
	GCCÁGCACCA AGTGACGCCA AAGCCCCTAG TTGACTCTAA CAGCCCCGTG	50
	GGCGCGCGG AGGCCGAGCG CTCTAGGGTC TACCTATCAG CGCAATCGTT	100
30		
	TAGCGCTTTT TCAATGGGGC AGGGCAGGAA GCAGGCGGGA CCAGGCAGCC	150
	AGTTCTCAAA GGCTGCGGGG CCGACTAGAG GCCACAGCCC CTCACCCCTA	20
35	GACGTCGACA ACCAGAACTG ACGTGCGACC TCCCGGGCGC CGA	24
•	(2) INFORMATION FOR SEQ ID :759:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 245 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :759:	
•	GCCACACCAG ACTTTCGACC CCCCAACCCT CTGAGGAAGA TGGGGGCAAG	50
	AAGATCACGC TCCCCGCCTG TTCCCCCGCC GCTTTTCTCC TCTCTTCTCT	100
10	CTTCGCTCTC AGCTCCCCCT GTCCCCTCAG CTCCAGACGT AGGGGAGGGG	150
	TTGCCACAGA CTCCCTGCTT GAAGCCTGCC CTTGCCTAAG ATGCTGGTAA	200
15	TGGCCATGGT ACCCCCTTCC GGGCATCTAC TCTGGTTTTC GGCCA	245
	(2) INFORMATION FOR SEQ ID :760:	•
	(i) SEQUENCE CHARACTERISTICS:	•
20	(A) LENGTH: 68 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :760:	
	GCCAGCGCCG AGGTCGCATA TTTCTAGGCG CAGGTATATG ACTGCCATAT	50
30	AACAAAAACC, NTGAAAAC	68
	(2) INFORMATION FOR SEQ ID :761:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 71 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

	(xi) SEQUENCE DESCRIPTION: SEQ ID :761:	
	GCCAGCGCCG AGGTCGCATA TTTCTAGGCG CAGGTATATG ATTGCCATAT	50
5	AATAAAACT GAAAACACCC C	73
	(2) INFORMATION FOR SEQ ID :762:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 88 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :762:	
20	GCCTGCGCCG ACGATGACCA GAATCCAGAA CTTTGCCTAT CACTCTCCCC	50
20	AACAACCTAG ACGCGAAAAC AGAATAAACT TCACCCAG	88
	(2) INFORMATION FOR SEQ ID :763:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 223 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(2) 20102000 2011020	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :763:	
35	GCCTGCGCCG ACAAACAAAA CCTGGAGGCC ATTCTGCACA GCCTGCCCGA	5
	GAACTGTGCC AGCTGGCGGT GAGGGCTGCC CAGATCCCCG GCACACACTC	10
40	CCCCACCTGC TGTTTACATG ACCCAGGGGG CGCACACTAC CCCACAGGCG	. 15
40		20

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	CGGATAGTCA CACTCCCTGC CGA		223
	(2) INFORMATION FOR SEQ ID :764:		
. 5	(i) SEQUENCE CHARACTERISTICS:		
3	, , –		
	(A) LENGTH: 70 base pairs		
	(B) TYPE: nucleic acid		•
	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear	•	
10			
•			
•	(xi) SEQUENCE DESCRIPTION: SEQ I	D :764:	
i			
15	GCCAGCGCCG AGGTTGCATA TTTCTAGGCG CAGG	STATATG ATTGCCATAT	50
	AATAAAAATC TGAAAACACC		70
•			
	(2) INFORMATION FOR SEQ ID :765:		
20			
	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 118 base pairs		
	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		
25	(D) TOPOLOGY: linear		
	·		
	(xi) SEQUENCE DESCRIPTION: SEQ 1	ID :765:	
30	· · · · · · · · · · · · · · · · · · ·		
	GCCAGCGCCG ACCGCCCCAA AAATACTCCC ACCG	GGATCA GGGCGATTAA	50
	*		-
•	TGAAGACTCA ACGGGGACTA AAAAGGGGCC CCAA	AAAAAA CCAAACCACC	100
35	TTTCTACGTA CCGTATAG		118
	(2) INFORMATION FOR SEQ ID :766:		
• •	(-) 100 000000000000000000000000000000000		
•	(i) SEQUENCE CHARACTERISTICS:		
40	(A) LENGTH: 88 base pairs		
••	(B) TYPE: nucleic acid		
	(D) TIPE: HUCIETC ACIA	•	

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :766:	
	GCCAGCGCCG ACGATGCCCA GAATCCAGGA CTTTGCCTAT CACTCTCCCC	50
	AACAACCTAG ACGCGAAAAC AGAATAAACT TCACCCAG	88
10	(2) INFORMATION FOR SEQ ID :767:	•
	(i) SEQUENCE CHARACTERISTICS:	٠.
•	(A) LENGTH: 91 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	* <u>.</u>
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :767:	
	GCCACCGCCG ACTCCAGGCA CTCACTCAAA CTTGATCTTC AACTCTGCAT	50
25	ACAAGCAGAA GCAATAAACC AATCTGATTT TCTTTTCAAT T	91
	(2) INFORMATION FOR SEQ ID :768:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 223 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :768:	
	GCCTGCGCCG AACAAATATA CAGAATGCGC GAGTCCCTCT GGAAGCCCAA	50
40		
	CATGGATCCG GATCACCTGT TTGAAACCAT CTCCCAAGCC ATGCTGAATG	100

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	CTGCGGACCA GGATGCAGTG CCAGGCATGG GAGTCATTGC CCACATCACC	150
	GAGAAGGACA AAATCACCAC CAGGACACTG AAGGCCCGAA TGGACTCGCC	200
5	CTGCTCCCAG AGCCCACTTT TTT	22.
•	(2) INFORMATION FOR SEQ ID :769:	
	The state of the s	
	(i) SEQUENCE CHARACTERISTICS:	
1,0	(A) LENGTH: 37 base pairs	
	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
•		
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :769:	
	GCCAGCGCCG AAAACACACA CTTTGCTTCT TACCTGC	31
20		
	(2) INFORMATION FOR SEQ ID :770:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 37 base pairs	
25	(B) TYPE: nucleic acid	
23	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(b) TOPOLOGI: Timear	
•		
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :770:	
	GCCAGCGCCG AAAACACACA CTCTGCTTCT TACCTGC	3
35	(2) INFORMATION FOR SEQ ID :771:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 91 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	•

	(X1) SEQUENCE DESCRIPTION: SEQ ID ://I:	
. 5	GCCACCGCCG ACTCCAGGCA CTCACTCAAA CTCGATCTTC AACTCTGCAT	50
	ACAAGCAGAA GCAATAAACC AATCTGATTT TCTTTTCAAT T	91
	(2) INFORMATION FOR SEQ ID :772:	
10 .	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 177 base pairs	•
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	• .
	(D) TOPOLOGY: linear	·
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :772:	
20	GCCTGCGCCG ANGCATTCCC TTTGACCTGA GTCTGCAGCA GGTCCCTTTT	50
	GCGCTTCCTT CCCCTCAGGT AGCCTCTCTC CCCCTGGGCC ACTCCCGGGG	100
	GTGAGGGGT TACCCCTTCC CAGTGTTTTT TATTTCCGTG GGGCTCACCC	150
25	CAAAGTATTA AAAGCAACTT TGCAATT	177
	(2) INFORMATION FOR SEQ ID :773:	
30	(2)	•
-,-	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 151 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :773:	•
40 .	AACATAAGAG GAGAAAGGAA GGGACATGAG GCATACCATT CCCCCCCCA	50
	MUCHINGON GUNDANGONA GOGACAIONG GCAIACCAII CCCCCCCA	50

	GAATTAGAGG TAAAGGAATC CTAAAATAAA GAGCACAGCA GCAATCACAC	100
	TCACAGGGTC CAGAGGCGTA TTCCTGGCCA TCTTCCTAGT ACTCGGTCCG	150
5	T	151
•		
	(2) INFORMATION FOR SEQ ID :774:	
•	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 299 base pairs	
	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :774:	
	ATCTTAATGA ACATGGCATT TAAAATCCTG TAATTTCAAA CAGTGAACCA	50
20	CAATGCCGTA TGATCTAAAG GCTGCTGAAC CACAGCGTGG ATACACTTAA	100
	CTGAGCTCCT CGCTGGGTCA AAGCACTCAT CTCCGAGTCT AAAGCTACAC	150
25	ACTATGGAGC ACACAACTCT GCCTCGCGCT GACACCAGAC AAACACGGCG	200
· · · · · · · · · · · · · · · · · · ·	GGAGCTGAGG CGGACAGCTA CAGGACCACG AGCATAGACC ACGGCACCTG	250
30	AGACCATCTC TACGCAAGGA CTTAAGGAAG CAAATATAAT ATTAAAATA	299
30	(2) INFORMATION FOR SEQ ID :775:	
•	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 185 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(-)	
	•	

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(xi) SEQUENĆE DESCRIPTION: SEQ ID :775:

	TGAAGGAAAT GACTACCTTG CACTACATGA AAAGGATATC GTTGCCATTG	50
	TGGCGTAATT TTCGTGCCGA GTGAATGTGG CGCAAACAAC TATATATCNA	100
5	AACCGTATAT TTAAAATGAA TTACTAGAGA GGGAATGTAA TCATGGCAAA	150
	AGAAATTAAG TTTTAAGAAG ATGCTAGTGC TAAGC	185
	(2) INFORMATION FOR SEQ ID :776:	
10		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 255 base pairs	• •
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :776:	
20	(XI) SEQUENCE DESCRIPTION: SEQ ID ://o.	•.
20	ATCCAAGCCC ATACCCATCA ACAATGGGAC AGCGATTGGA TCACCAGCCA	50
	TTTCACCACA CATGGCAACA AACTTACCTT CTTTAAGAGC GGCAGTAATC	100
25	ACATCGTCGA TCAAACGCAA AATCGATGGG TTATAAGGTC GATACAAATA	150
	AGCAACCTTA TCATTACCAC GATCTGCAGC CATCGTATAA CCAATCAAAT	200
	CGTCGGTACC AATCGAGAAG AAGTCCAATC CCTTAGCAAA CTCATCAGCC	250
30	AACAT	255
	(2) INFORMATION FOR SEQ ID :777:	· .
	·	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 239 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
40		÷

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•	(xi) SEQUENCE DESCRIPTION: SEQ ID :777:	•
	AGATTCTGCA GTGTAATATG ACCAAATCAA ATCCGTTGTA TGATCGAATA	50
5	AGGCCGTCAT AAAGTAAGTT GAAAATTTCG TTCTTGGCTG AATCGTGTTA	100
	AACCGTTGTA CACAACGTAG TAAAATTCAT AACCCATCTG CATACCAATC	150
10	GTCAGCCGTG ATGCATTTAC TCACTTTACG TCGATGAATG TCAAACATCG	200
10	CACCTTTCA ATGTTTACTA AAAACATAGC ACGCAATAT	239
	(2) INFORMATION FOR SEQ ID :778:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 252 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :778:	
25	ACTGAACAAC GTAAGGTCTT GACTGACACT TACAAGTTGG ATGAATCTGA	50
÷	AATAAAGTTG GTATTGTTTG AAGCAGCCCA ACAATTTCGA ACATGCTACA	100
30	AGACCGTCGT TTGACTGACA AGGCCTTGAA GTACATGACT GACAACAACG	150
30	TCGATCTTCG CCTAGGCGCC ATGGTCACTG GTGTTGACGA AAATGGCGTG	200
	ATTTTTAAGG ATGACTCAAC TTCGCCAACT CGGTTCCTCA TTAGGACAAC	250
35	TA	252
٠.	(2) INFORMATION FOR SEQ ID :779:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 265 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :779:	
	TCGGATTTAT ACGGCTGTTA GTGCTATCGG CGTCTGGTAT GTGTTATATA	50
10	TCGCCTATCG TTTTTTGGCC AATGGGCGTT GGCTACGCGG GGCAATGATT	100
10	GCCATCGTTT TTGTTATCTT GACTTATTTC GTCATTTTAA ATATTATTTA	150
	ACTATTTTAC AAATAAAGTG GTCAAATGGG ATATTTTGCC AAAAATAGAG	200
15	AAAGTGTTAG GCGGCCCACA GCTGGAGGAA GAGAAAGCGG CTGTGCATGA	250
	AGTTATTGCA CCCGC	265
20	(2) INFORMATION FOR SEQ ID :780:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 249 base pairs	
	(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :780:	
30	CTCAGCTGGA CCAAATTAGT TGAATTACTC ACCATCAATA AACTATAAAT	50
	GGCGCCAATG ACCAACCCGC CAACGATTCC CGTTGTCAAA GAACCTAATA	100
35	ACAAGTAACC AACCGCAGCC CCAACAAGCC CAACTAGGTT TAAAAAAAACC	150
	AAGCAAAAGG CCAACTGTCC GTCGTTTATT GGATTGTATC TGCTCATATA	200
40	ACATTAAAAC TTAACCGTTG GCACTTCTTT CTCAGACCCG CCGATACTG	. 249
	(2) INFORMATION FOR SEQ ID :781:	

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(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 188 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :781: GAGAGAACCC ACCATAGTAC TGTCTCCTGC AGACAAGACC AACGGCAAGG 50 CCGCCTGGGG TAAGGTCGGC GCGCACCTGG CGAGTATGGT GCGGAGGCCC 100 TGGAGAGGAT GTTCCTGTCC TTCCCCACCA CCANNNACTA CTTCCCGCAC 150 TTCGACCTGA GCCACGGCTC TGCCCAGGTT AAGGGCCA 188 (2) INFORMATION FOR SEQ ID :782: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 182 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :782: AATATTTATT TCATTTGTTT ACTACCACTT CATTTTATTT GTTTGCTGCT 50 GCCGTTTTAT TTATTTTTAC TGAAAGTGAG AGGGAACTTT TGTGGCCTCC 100 AACCTTTTC TGTAGGCCGC CTTAAGCTTT CTAAATTTGG AACATCTAAC 150 AAGCTGAAGN GGAAAAGGGG GTTTCGCAAA AT 182

(2) INFORMATION FOR SEQ ID :783:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 295 base pairs

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :783:	
	CACAGCCAGA GCTTCGTCCT CAGTGACCAC AGGGCTGAGC CAGGCTCAAC	50
10	COORDINATE CHARGE CHARGE COLONIA NO AND CONTROL AND CONTROL	
	CGGCTTCTGG CTCTTGTTTT GCAGAAGAAG AACTAGAAGC AAGGNGCTTT	10
	CCTCCGGGTC CCAGAGCTGT TAGTGATGGA GCCAGGCCTG GGATCCAGCT	15
	colocada comocial incluitada comocada comocada	
15	TTCCTGAGTT CCTGACCCCT GCTATTTTAT TAGTCAGCTC TCAGCACTTA	20
	CCAGAGGAAC AGGCAGCCTT TTGGCTACTG CCTTCAGAGA AAGAGAGATG	250
		,
	AGAGAATTCA AATGCGTGTT GGTGTTCCTG TTAGTACAAG CAGCA	29
20		
	(2) INFORMATION FOR SEQ ID :784:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 295 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
30		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :784:	
	(NI) DECEMBE DESCRIPTION DEC 15	
	CAATAGCGAC TTCTGGTGTC AATTCGATAA TCGGCCAATG GATACTTCAC	5
35	GTGTGTTTCA TCGTCTGTAA TAACGGCGAA TGGTGTCACT TCAGAACCAG	10
	TACCTGATGT TGTTGGAATG GCAACCATTT GTGTCAAACG CACTGGTAGA	15
	ACTTCACGAT ACGCTTACGG ATGTCCATGA ACTTTTGTTC TATTTCCATG	20
40		
	AACAATTCCT TGATACCTTC TTCGTCTGAC AAAATACCTT CGTGACGTGT	25

	TGAGTATTCG TACAAGAAGC GACCAATCTT ACCGGCATCA AGTGC	295
	(2) INFORMATION FOR SEQ ID :785:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 303 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :785:	
15	GTGTAAAGCG AGTAGCCCCC AAATCAGTCA TCTTGGCCTG AAGATGTAAA	. 50
	CAAGGAGGTT TGCTTCCTGC AAGATGAGTA CTTCACTGAG TTTGGTTTTC	100
•	ATTTTCCTA CACCGAAGCC ACCTCTGTCC ATCCAATGTT CATGTCTGTC	150
20	CGAGGCTGCG CAGGAGGTTA CGTCAAGATG TGGCCAATAA AGTCCAAAAA	200
	GCGCTTTGAA TACTGTTCTG GGTTCACGGT GGAGATCTCC GCGCAGCCAT	250
25	GTTTAACAGT TTTTGCAGCA TGGGCAGCTT TCTTTTTTGC ATCATAATGA	300
	GTA	303
30	(2) INFORMATION FOR SEQ ID :786:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 255 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	-
	(2) 10102011 1111021	÷
	(xi) SEQUENCE DESCRIPTION: SEQ ID :786:	
40		
	TATGGCGCGG ATCCTAACGG CTGGAATGAA GATATGCCAA CGTACAGCCT	E 0

	CTATGACCCA GCCATGGGAT CAGGCTCATT GCTTTTGACG ACTGCTTCAT	100
	ACATGAAGAA TGATGGTGTT CGTGGGGCCA TTAAGTACTA AGCCAAGAAG	150
5	TTATCACGAC AACCTATAAC TTGGGCCGAA TTAACTTGAT GATGCACGGG	200
	GTGGAGTATA ACGATATCAA TATCCATAAT GCAGATACCT TGAGTTCAGA	250
	CTGGC	255
10	(2) INFORMATION FOR SEQ ID :787:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 206 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :787:	
	CATTGAAAAG TGCCTGAAAA ATGGTAAATT CTTAAATGTG TGTGAGATTG	50
25	TCAGAATCAA CAAAACTAGG TTGGTTAAAC ATATCTCTGG TACATCAAGG	100
	GGCATGATAC AAACCAGTCT AAAGACTGTT TATAAAGGAG AGAGCTGGCG	150
30	ACTTATTTT ATTTTTTTT TTTTGGACAG ACTCCCTTTG TCCCCAGGCC	20
·	GGAGTG	20
	(2) INFORMATION FOR SEQ ID :788:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 260 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

40

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(xi)	SEQUENCE	DESCRIPTION:	SEQ	ID	:788:

	(X1) SEQUENCE DESCRIPTION: SEQ ID :/00:	•
	ACAAATAGCG ACCTCCTGGA GAAAAATCGA AAACGGCCAA GTGGATACCT	50
5	CACGTGGTTC ACGTCTGAAC AACGGCGAAT GTGAGCTACC TCAGAACCAG	100
	TACCCGAAGT TGCTGGAAGG CAACCACATT TGGTTCAAAC GAGGCGTGGA	150
10	AGAACCTCAC GACACGCTTA CGGAGTCCAT GAACGCTTGT TGCAATCCAG	200
10	GAACAATTCC GCGACACCCT TCGTCTGACA AAAAACCTTC GTGACGCGTC	250
	GAGTATCCGC	260
15	(2) INFORMATION FOR SEQ ID :789:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 208 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :789:	•
.·	AACCCACCAT GGTGCTGTCT CCTGCCGACA AGACCAACGT CAAGGCCGCC	50
30	TGGGGTAAGG TCGGCCTGCG CACTATGCGT GAGTATGATG CAGAGGCCCT	100

AACCCACCAT GGTGCTGTCT CCTGCCGACA AGACCAACGT CAAGGCCGCC 50

TGGGGTAAGG TCGGCCTGCG CACTATGCGT GAGTATGATG CAGAGGCCCT 100

GGAGAGGATG TTCCTGTCCT TCCCCACCAC CAAGCCCTAC TTCCCGCACT 150

TCGACCTGAG CCACGGCTCT GCCGAGGTTA GGGGCCACGA CAAGAAGGTG 200

ATCGACGC 208

(2) INFORMATION FOR SEQ ID :790:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 289 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :790:	
	AAAAGAAGTA CGGTAAGGCA AATCCTGAAA TTAAGAGTTA CTATGTGCCT	50
	GAAAATACAT TGTTCTACTC ATTTAGTGTG ATGGCAATGG GCGCCGGCGC	100
10	ACTCTTGCTA TCGACCATCG TCGCGCTTTG GATGAACCGT CGTAAGTCAC	150
	AATTAATGTA GACACAACGT CGATTCTCGT GACTTATGGG GATCGCAACT	200
15	TTCGCGCCAT TCTCGATCAA CACAGCCGGT TGGTCAGTGA CTGAATTAGG	250
	TCGTTATCCA TGGGTTGTTT ATGGCTTGAT GCTAATAGC	289
	(2) INFORMATION FOR SEQ ID :7.91:	
20	(i) SEQUENCE CHARACTERISTICS:	·
	(A) LENGTH: 232 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
• •		
		•
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :791:	
	TTTCCTGTGG AAGTAGTTAA ATTGATAAAT TCCAAAAATT TGGCAATTAA	50 .
	TTGCTCATTA TTAATGGTAG AGTTTCCATT AATGAAGTTG GAAAATACGG	100
35	TGAATCTTTC AATGAACTCA GTTAGACATT CGGAATGAGC TTCATACATT	150
	GTCTTATTAT CTTTCTTCAA TTTATCCTCC AAATCTGGGA ATTCTGATAA	200
	CCAAATTGAA GCACCTTATC TATGATCCGG GC	232
40	(2) INFORMATION FOR SEQ ID :792:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 232 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :792:	
10		_
	TTTCAACAAA CAGAAACCAA TTTCCAACCA GAGGGCGATT TCTCCTTGTC	5
	TGGTAATATC GAACAAACTA TTTTTAAGAA CTTGATTTCT GGCAACATTA	10
		•
15	AGAGCGCTGT GAAAAATTCT CTAGAGAATG ACTTACTAAC GGAGGCCATG	15
	GCGATCGCAT TAGATTCAAA TAACGAAAGA TCAAAGGAAA GTGTCAAGAA	20
	TGCCTATTTC GCGAAGTATG GATCTAAATA AC	23
20		
	(2) INFORMATION FOR SEQ ID :793:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 292 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :793:	
	GGGAACATAT CTTCACGGTA GTGANCCCAG TGACCAGATG TCTTATACAA	
i .	GGGAACATAT CITCACGGTA GTGANCCCAG TGACCAGATG TCTTATACAA	5
35	GTTCAAGTTA GACAAAACGG GTGTATACAC GTGTTGGTAA CCATTGGCCA	10
	ATTCTTTGTC GGTGATGTAA CGTTCAACTT GACGGCGAAG CGATTGCCCC	15
	ATTTGGTAAC CAAACTGGCA AACCTGAACC CACTTCTTGA CTCGTAAAGA	20
40		
	ACAACTCCAT CTCACCACCA ATCCTCCCCT CCTCACCTTC TTTAACCTTCT	2 5

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	TCACGACGTG CAATTCTGCT TCAACGTCGG CTTGCTTCCA TT	292
	(2) INFORMATION FOR SEQ ID :794:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 288 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
10 .	(b) Torobodi. Timedi	•
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :794:	
15	CAGCAGGCAC AACACCATCG GTTGTCGCTG AAAGTATTTT TAAGTCTTTG	50
	GCCAAGAAGT CAGTTTCAGC TAAGTTAGAC GGCACTTATG CGGGTATGCA	100
	TGATGTCATT CCTGCATCCG ATGATTTTTA ATTAATTACA ACAACTGATG	150
20	ATGAAGCGTC GAATTCGTCG CGTCATTCTG CCTCACACTC ACAGGCACAA	. 200
	GCCTTAAAGC ATTTGCCAAA GTTTGCTAAC ATGCACTTTG GCGCGGCAAC	250
25	CATTTATTGA AAATGGTTTC TACTATGATA CAAATAAC	288
	(2) INFORMATION FOR SEQ ID :795:	
	(i) CROUDNOR GUNDNOMERTOMAGO	
30	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 258 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
35		•
33		
4	(xi) SEQUENCE DESCRIPTION: SEQ ID :795:	
	GTGGCTATGT ATAAGCAGAT ATTATCTAGT AAATGTAAAG TGAACCCAAT	50
40		
	CGATAGACCC AAAAAGTGTT TTAACTGGAA AACACCTTAT GAGGTTTATT	100

	TTGATGAAGT GTTGCAGTTG GTTTGATAAT TCAAGGCATT AAGGCAATAT	150
	CTCAATCACC GCATTTTCCA CAACCGGCCA CAAAACAGCT CGTCTATTTC	200
. 5	GAGGTCAGTT ACGGCGTCCA GTCTTTGAGC AGATGATTTG CCCCGAGTGA	250
	TCGTCGGC	258
	(2) INFORMATION FOR SEQ ID :796:	
10		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 270 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15		
15	(D) TOPOLOGY: linear	
*		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :796:	
20		
	TGCTTCAAAG CCTGGCTTAA CCCGCTTGCC CACCAACTTC AATTATACCT	50
	GCCCCTTTGC CTAACATCTC ACCGACTCGG GCAACCATCG TATCAACACC	100
25	CGCGACTCGA TCCCCATCGT AAAATGATTC CGAACTAACA TTTAACACAC	150
.*	AATAGATAAT ACCATCAGCA TAATGCAAGG TTTTACCATC CACGACCCAG	200
30	AGGCGATCAA TCGCGACTAA CCGTCGTTGT AATTCAGGAC TAGCGGTACG	250
	CTCATGTAAC GCGACAATAT	270
	(2) INFORMATION FOR SEQ ID :797:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 210 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
,	(D) TOPOLOGY: linear	
40	(b) Totoboot. Timeat	
40		

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :797:	
•	AAATATCGCT GCGTGCAGCT GAGTTACTAG CTGTTGAAAC TTATCGTTAC	50
5	TTGTGTAGGT TGTCTGAAAC GGTCGCAGTC ACCGGTTAGC TTGATAAGTC	100
	AGGTTTTCAG CAACTGTCAT CAAGCCATCA CGACCTATAT AAGCCACTGC	150
	AATCGCACTT TACATCATTA AGACCCTTAC TAGAAGTAAC TGGCCATCCT	200
10	GCCACCGCTT	210
	(2) INFORMATION FOR SEQ ID :798:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 218 base pairs	٠.
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :798:	
25	ATCATAAGCG CTGGAACTTG GGGCATTGTA CAGGGACAAC TTCGGCCTTT	50
	GTTAGCCCCA AGAGTCTACA CTCTGCCAAT GGTGCGCTCC ATAGGAAAAA	100
. 30	CCACGGTCCA AGGCAAAAC TACGAACCTC AGATAACCGC AAAGAGGATA	150
	TCAACCAGAG GACGGAAATG TAAGCCTATT TTAGCCCAAA TAACGAGACA	200
	AGTAGTTGAG CTAAATGC	218
35	(2) INFORMATION FOR SEQ ID :799:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 176 base pa Ts	
	(B) TYPE: nucleic e .d	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

401

	(xi) SEQUENCE DESCRIPTION: SEQ ID :799:	
	CCTATCAGAA TCCAATGAGA ACTACAATGG TGTGCCCAGA CGTAGAGCTG	50
	AGAATAGCAT TACCAAATGG AACAACGTGC TACAGTCAGG ATTAAAAAGA	100
	ACAATACTAC AAACCAAGTA TATCAGGCTA TTATAGCAAA GGCTGCCATG	150
10	AACAATACAA CACTGAATTA CTCGGC	176
	(2) INFORMATION FOR SEQ ID :800:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 254 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :800:	
25	GCAATTGCTT AATTTGTTCT TCCTTCTTAG CATTTTGCTG AGAAGCCAAA	50
	CGTTGCGCCA ATTCAGAAGA TTCACGCCAG AAGTCGTAGT TACCAACGAA	100
	TGGTGTGATC TTACCAAAGT CAACATCCAA GATGTTGGTT GACACGGCGT	150
30	TTAGGAAGTG ACGGTCGTGG GATACCACAA TCACTAGGTT CGGGAAATCA	200
	GCCAAGAAAT CTTCTAACCA GTTAATTGTC TGCACATCCA GACCGTTGGT	250
35	TCGA	254
	(2) INFORMATION FOR SEQ ID :801:	
•	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 203 base pairs	
40	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

(D) TOPOLOGY: linear

40

402

	(xi) SEQUENCE DESCRIPTION: SEQ ID :801:	
5	ATCCAGGCCC ATACCCATCA ACCCTGAAAC AACGATTGAA TCACCAGCCA	50
	TTTAACCACA CATTGCAACA AACTCACATT GGGTTCCGAG CGGCAGTAAT	100
	AACACAGTCG ATCAAACGCA AAATAGATGG GCAATAAGGT CGATACAAAT	150
10	AGGCAACCTT ACAATTACCA CGATCTGTAG CTATCGTATA ACCAATGAAA	200
	ATG	203
15	(2) INFORMATION FOR SEQ ID :802:	
. •	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 193 base pairs	
	(B) TYPE: nucleic acid	•
20	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(D) TOPOLOGI: Timeal	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :802:	
•	GACACAACTG TGTTCACTAG CAACCTCAAA CAGACACCAT GGTGCACCTG	50
30	ACTCCTGAGG AGAAGTCTGC CGTTACTGCC CTGTGGGCTA GGCGAACGTG	100
30	GATGAAGTCG ATGGCGAGGC CCTGGGCAGG CTGCTGGCGA TCTACCCTTG	150
	GACCCAGAGG TTCTTTGAGT CCTTTGAGGA TCTGTCAACT TCC	193
35	(2) INFORMATION FOR SEQ ID :803:	
	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 290 base pairs	
	(A) BENGIN. 270 Sade Parts	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

	(xi) SEQUENCE DESCRIPTION: SEQ ID :803:	
_	AACAAAAGTT GAAAATTTTA AATGGTCTTT TTATGGTTTG CGTGACCTAA	50
5	AAAGACAAAG TTTATCCTTG CCTTACTGTA TAGAAATGCG TCGTATCCAC	100
	AATAGCGTAC AGATTTTTCC GCATTAATCC GTGTTTATAT TAACAGATTC	150
10	GTTAAGTATC GTTTAAAAAG GGAGAGAGGG GATACCCTCT CTCTAGATAA	200
	ATGGGTCATC ATTTAATCCC AAGAATGATG TCGATAAGTA CTTTTCTAAA	250
15	CGATAACAAG AACCCCAGTA GGTAGTATAG CAGTCTTTAA	290
10	(2) INFORMATION FOR SEQ ID :804:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 256 base pairs	
20	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :804:	
i	AACTTGATGG TCGAGGCCAT CTCCTGGGCC GCCTGACGAT ACCGTGGCTA	50
30	AACAGGTACT GCTGGGCCGG AAGGTGGTGG TCGTACGCTG TGAAGGCATC	100
	AACATTTCCG GCAATTTCTA CAGAAACAAG TTGAAGTACC TGACTTTCCT	150
35	CCGCAAGCGA ATGAACACCA ACCCTTCCCG AGGCCCCTAC CACTTCCGGG	200
	CCCCCAGCCG CATATTCCGG CGGACCGTGC GAGGTATGCT GTCCCACAAA	250
	ACAGGG	256
40	(2) INFORMATION FOR SEQ ID :805:	

(i) SEQUENCE CHARACTERISTICS:

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(A) LENGTH: 286 base pairs(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :805:	
10	AGCAACCTCA AACAGACACC ATGGCGCACC TGACTCCTGA GGAGAAGTCT	5
	GCCGTTACTG CCCCTGTGGG ACCAGACGAA CGCGGATGAA GTCGGCGGCG	10
		٠.
	AGGCCCTGGG CAGGCTGCTG ACCGATTTAC CCTTGGACCC AGAGATTCTT	15
15		
	TGAGTCCTTT GAGAATCTGT CCACTTCTGA TGCTGTTATG GGCAACCCTA	200
	AGACGAAGGC TCATGGCAAG AAAGTGTTCG GTGCCTTTAG TGATGACCTG	25
20	GCTCACCTGG ACGACCTCAA GGGCACCTTT GCACAC	20
	GCTCACCTGG ACGACCTCAA GGGCACCTTT GCACAC	28
	(2) INFORMATION FOR SEQ ID :806:	
	· · · · · · · · · · · · · · · · · · ·	
	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 291 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
_		
30		
	(with Chounnel Broghthman, dro the cos	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :806:	
	TTCTTCATCA GATTTTACAT CTGCCTGATT AGAATCTTCT ACACTGGCCT	5
35	TIGITORIOR CRITITIONI GIOCOTORII ROMATCIICI MCMCIGGOTI	5
	CAGAAGATGA TTGTTCAAAA CTTTTTCTAA GTTGCTGTAA AAAAACTTCC	10
	ACGGACAAAG TAAAATGCAG TTCTTTATCG TTTAGCCAGT GTACAACAAA	15
10	AGGTCCAATC TTCTCTTCAT TTTAATTCAG ACTCAGAGAT GTAATAGATG	20
	GAAGAAGTGA AATGTCTGTG GCTGGGTTGA TGCTGGCTGC AATATGAAAG	25

	TGGCAAAGTG CATTGCTATG CAGTGGAGTG TTACTGTGGA C	291
	(2) INFORMATION FOR SEQ ID :807:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 276 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	•
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :807:	
15	AGTTTAATCA GCTGCAATGA AAACAAACGT CTTTTATTAG GCAGAATCCA	50
	GATGCTCAAG GCCCTTCATA ATATCCCTTA ATTTAGTAGT CGAACTTAGG	100
20	GAACAAAGGA ACCTTTAACA GAAATAGAAC AACAAGAAAG CGAACTTAGC	150
20	GATACTCGCG GGCCAGGGCA TTAGCCACAC CAACCACCAC TTTACGATAG	200
	GCAACCTGCA CTGGAGGGGC GACTTCTCCG CCAAAGCGAC GGGCCAGCAC	250
25	ACAGACCAGC ACGTCGCCCA GGAGCC	276
	(2) INFORMATION FOR SEQ ID :808:	
٠	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 218 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
• .		
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :808:	
	GGCCTGCCAA CAGCATAGGG AAGAATCTCA TTGTTATACA TATTAAGAAT	50
40	CGATTCTAAA TAGACCTTTT TACCAGTCGC TGAAACTCTT AAATTAAGTA	100

	ACATCGCTAG CTAATTTCG TAATGGCCGA TTAATCTTGA AACGGCGGCG	150
•	AAGCTTGTTC TTCACACGTT TCCCTTCAGG TCCTTTGATG AATCATACTG	200
5	ACGTGATCGC TTATCGTA	218
	(2) INFORMATION FOR SEQ ID :809:	
	AND ADDRESS OF THE PROPERTY OF	, .
••	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 276 base pairs	•
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(b) TOPOLOGI. Timear	* 1
15		
		٠.
	(xi) SEQUENCE DESCRIPTION: SEQ ID :809:	
	AGCAACCCAG CGCTCAATGG TGCTAGTGAA CACAGTTGTG TCAGAAACAA	50
20	CCTCAAACAG ACACCATGGT GCACCTGACT CCTGAGGAGA AGTCTGCCGT	100
	TACTGCCCTG TGGGCAAAGG CGAACGCGGA TGAAGTCGGC GGCGAGGCCC	150
25	TGGGCAGGCT GCTGGCGATC TACCCTCGGA CCCAGAGGTT CTTTGAGTCC	200
	TTTGGGGATC TGTCCATTAC TGATGCCGTA TGGGCAACCC TAAGGCGAAG	250
	ACTAATGGCA AGCAAGTGCT AGACGC	276
30	(2) INFORMATION FOR SEQ ID :810:	
	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 199 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :810:

	GACTCCACCT GAACGGGCCC CTTCTGAACC GCCTCTGTGG GAGCAGGCCC	- 50
	CATCTGAGGA GGGTCCATCT GAGCAGATCC CTTCTCAACA GGTTCCTTCT	100
5	GAGGAGGCTT ACTGCTTTTC TTACTCGATT TATTTTTCAG AGTTTTCTTC	150
	TTCGTACTTT TTTTAACGCA AGTATTTTGC TTTTTATTCT CCTCCATTT	199
	(2) INFORMATION FOR SEQ ID :811:	
10		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 254 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :811:	
20	(XI) DEGOENCE DESCRIPTION. DEG ID .OII.	
	AAACAGCACA ACCAATGACA GGATGCAAGA ACTGATAGGG CGCCGCAAAA	50
	AAAAAGCGGG CCAAAGATGA AGTAAATAAA CGTAAGGGAG GTACCGAATC	100
25	TGGGGGGCTT GGCGTAGAGT AAGGGAGAGG AGCTTCAACT ATCTCAATAA	150
<i>:</i>	GGGCAAGAAA ACACAAACAA CTCCTTCATT CGTCCAAAAT GCTTCTGAAT	200
30	TGCACCACAA TTGACACACA CACACCTCAA AGCAGAATCC GCACTGACCT	250
	AAGT	254
•	(2) INFORMATION FOR SEQ ID :812:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 284 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

•	(xi) SEQUENCE DESCRIPTION: SEQ ID :812:	
	TTTTTTTTT AGCAATGAAA ATAAAAGTTT TTTATCAGGC AGACTCCAGA	50
5	CGCTCAAGGC CTTTCACAAC ACCCCCCAAT TTAGCAATAG ACTTCAGGGA	100
	CCAAAGGACC CTTTAACAGA AATAGAACAA CAAGAAAACA AACTCAAAGA	150
	CACTCGAGGG CCAGGGCCTC ACCACACCAA CCCCCACTTC CAAACAGGCA	200
10	ACCTGCACCG GAGGGGAGAC TTTTTCGCCA AAGCGACGGG CCAGCACACA	250
	GACCAACACA TCGCCCAGGA ACCTGAAGTT TTCA	284
15	(2) INFORMATION FOR SEQ ID :813:	
	A CONTRACT OUR DECEMBRACE	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 279 base pairs	•
20	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :813:	
	ATACANCAGC AGANACAGGT ATCCACGCAC AGTCCAGCAA CATTTCTTCT	50
30	GGTACAACGC AGCTTCAAAG TTCACATCAA ACGTTACTTT GTCATACCAA	100
30	GGCAAGGATG CTAACTCGAA GTCAATCACG CGAGTGATGT CATTCACAAC	150
	CGGTCACGGT GCCGATGTGA CAATCAAGAC TGAAGGCGAT GACGAAGAAG	200
35	CAGCACTGCC CGCCGATAAC CGCAGCGATG CAAAAAAAA AGCTAGACGA	250
	CTGACGAAAC CTGAGAACCC CGAAGGACT	279
40	(2) INFORMATION FOR SEQ ID :814:	
40	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 208 base pairs

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(B) TYPE: nucleic acid(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5 ,		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :814:	
10	AACGTGCTGG TCTGTGTGCT GGCCCATCAC TTTGGCAAAG AATTCACCCC	5
10	ACCAGTGCAG GCTGCCTATC AGAAAGTGGC GGCTGGCGTG GCAACAGTGA	10
•	CTGAGAAGAC CAAAGAGCAA GTGACAAACG CCGAAGGAGC AGTGGCGACG	15
15	GGCGTGACAG CAGTAGCCCA GAAGACAGCG GAGGGAGCAG GGGGCATCGC	20
	AGCAGCCA	20
20	(2) INFORMATION FOR SEQ ID :815:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 192 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :815:	
	AAACCACGCT CAGTCAGGTT CCGGCAGCAG CTGCAGCATC TCATCTTCTG	5
•	CGACTCTCGG TGCCCTCTCC TTCCGATTTC CGGAAACATG GCCTCCGATG	10
35	TGGCTGTCTC TGACGACGTC ATCAAGGTGT TCAACGACAT GAAGGCGCAC	15
	AAGTCTTCAA CGCCAGAGGA GGTGAAGAGG CGCAAGCAGA TA	19
40	(2) INFORMATION FOR SEQ ID :816:	
40	(i) SPOUPNOR OURDROTTERS OF THE	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 264 base pairs	

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
• • •		
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :816:	
10	GAGAGAACCC ACCATGGAGC TGTCTCCTGC CGACAAGACC AACGTCAAGG	50
- .	CCGCCTGGGG TAAGGTAGGC GCGCACAATG GCGAGTATGG TCGCAGAGGC	100
	CCTGGAAAGG ATGCTCCTGT CCTTCCCCAC CATGTGAGAC CTACTCCACA	150
15	CACTTCGACC TGAGCCACGC CTCTGCCAGG TTAAGGGCCA CGGCAAGAAG	200
·	GTGCCCGACG CGCTGACCAA CGCCGTGCGC ACGTGGACGA CATGCCCAAC	250
20	GCGCTGTCCC CCTG	264
20	(2) INFORMATION FOR SEQ ID :817:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 202 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :817:	
	ACCCTACACA CATCCGTTCA ACTGTCCCAT CACCCACTTA CACTCCAAAA	- 50
35	AAAACCACTC AACAAGCAAA CAACCCATCC TGTTTTCATA ACGTTATCGT	100
	AAC AAAG CCGACCATAA TCAACTTGAA TTTACTTCAC CACAAGGCAA	150
	AGCGATTATT TAGATGAGGC ACTCGCACTA CTGCTTGAAG TGCTACTAGA	. 200
40	TG	20:

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	(2) INFORMATION FOR SEQ ID :818:	·
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 179 base pairs	
.5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :818:	
	AGTAGAAAAT AAGTTCAAAA TTTTAGAAAT ACTGGCTTTA TACTCGCCCA	50
15	TGTATTTACA TTCACAGAGA TCTTTATTTA TTTACAAGCG CTTTGAGTTA	100
	CTGTATAGTT TTTTTTAACA AAAAAGCGTG GGGGGCTCCC TTTAGCATTC	150
20	CCCATAGGAT AGGTAATGAA CTTTTTGTT	179
20	(2) INFORMATION FOR SEQ ID :819:	· .
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 260 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	,
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :819:	
	TGTGCTCTTA TGCTAGATTT ACGGACAGAT TTTCTTCTGC CCTGTAAACT	5(
35	AATAGCATAG GAGCATTTTT TAATACGATT CGATACAAAA AAGAATTTAA	100
	GCAATCTCTC GCCGAGACGC ACAATCAAGA CCATTCATAT ACTGATCTAT	150
	CCGCTGAATA CGAACCTTCA ATCGACTCAA TCCGTAACTG GATCAAGTTG	20

TACGCGGGTC CACGAAGTGA CAGACGAAAA ATGAACGCAA GCTGATGTAA

	ACGCATCACA	260
	(2) INFORMATION FOR SEQ ID :820:	
	(2) INTORMATION TON BUY ID .OZO.	•
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 226 base pairs	
	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :820:	٠.
15	ACTCGGCACT TTCTTAGAAT AGACAATTTG CAAAATGTCC ATCCCAGGTT	50
	CATCCTTGTA GCCTAATGTT TCCGTCACCG TTGCCACTAG TTAACGTGGG	100
20	TGAACTTTAT CTGGGAAACG GGTAACATCC GCGACCACAA CTAGACCATC	150
	ATTTGACGTA ATGCCATCAG CACTCACCAA AACTTGGCCA ACCAACAGCC	200
	TTTCCGTAAC TGAGTTTGAT TTCTCC	226
25	(2) INFORMATION FOR SEQ ID :821:	
•	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 197 base pairs	
•	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :821:	
	CACCTACATA TAGATGCACG AAGTACTTGC TCACTTTTTT TGGTTGTAAA	50
40	TTTTCAAAGC GTTGAAGGCA GCATTCTTAG CGGCACGGAT GTCCTTATCA	100
40 .	GTGAATGAAT CAGGCTTTTC CATGGCCAAC CAACCAACGA TTCGCATCGC	150

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	GTGATTTCGA ATCATGTCAA GCAAAGCACC GGCTGTATCA TAGTAAC	. 197
	(2) INFORMATION FOR SEQ ID :822:	
5	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 304 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :822:	
15	GGACTGGGTG CAGTGGCTCA CACCTCACGT TACATTTTAT AGCTAGCAGG	50
	GTAATGGGGA GTTATGGCAC TCAGGTCACA TTCTAGGGAA TGTTTATCGG	100
20	GCAATCTCAA TGGCACCGCA AGCTAAATGA CTTCCAGTGT TTCTCATCTT	150
20	TGCGCTTTCT TCATCGCAAC CTTTGCCCAA GACATCTGTT TTTTCTGGAT	200
	CACCCTTGCA CAGCCACTGA GGAATGATCT TCTGAAAGTG AATCTTCAGT	250
25	AGACACATCG CCACACCATC TANGTCAGCC ATCACATGCC CAGGTCTNGA	300
	CATG	304
30	(2) INFORMATION FOR SEQ ID :823:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 197 base pairs	
	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :823:	
40		

GGCCCAGCAG ANGGAGGAAC ACTACCGAGG CTCCAGCTTA ACGGTATTTG

414

	GAGGTCAGCA CGGTGCTCAC AGAAGCCAGG AACTTGCCCA	GGGAGGCGTG	100
	CACCAANGGG GCGAACTCNC GGGGAGGCGG GCGACCAGGG	TCACCAGCAG	150
5	GCAGTGCTTA GGAGCTGGGA GCCGACCGAG CCCACCGAAC	TCGCGCG	197
	(2) INFORMATION FOR SEQ ID :824:		
10	(i) SEQUENCE CHARACTERISTICS:	•	
10	· • -		•
	(A) LENGTH: 281 base pairs		
	(B) TYPE: nucleic acid		
·	(C) STRANDEDNESS: double		* •
	(D) TOPOLOGY: linear	•	
15		•	
•			
	(xi) SEQUENCE DESCRIPTION: SEQ ID :824	:	
20	AAAAACAATG TCATTTTGTA CAGACAAAAT TTAGCAGACT	CAAGCTTCCA	50
	CAGTTAGTGC GAGAGCCTGT GGATGGCATA GTTACATAAG	AGTCTGTTGT	100
25	GGATTCAAAT GTCACCTCTT CCAGGCAGTC TTTCCTGACT	TACCCTGGCA	150
:	GCTTTGTGTT CCCACATTAC TAGTAATGTT TTTTTCCTTA	ATAGCAATGA	200
	TTTCACTGTA ATAATGTATT TATATGCCTC TCTCCCCCAG	ACAGCAAGCG	250
30	TTTTCCCACA GGTCTCGACA CACAGAAGAT A		281
	(2) INFORMATION FOR SEQ ID :825:		
	(i) SEQUENCE CHARACTERISTICS:	•	
35	(A) LENGTH: 312 base pairs		
	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
		•	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :825:

	TATTAAATTT ACTAGAATGT TACAGTTACA AATTTGGTAA TGTTCTTTCT	50
	GAAAAACAGC CTAATTTTGC AGCCTGAAAC TTGACTGAAA ATCTCAATAC	100
5	TTTTATTCAT GATAGAAAA TAATTCCTGG CTTCATCTCA CAATTAACTA	150
	ATAATTATGT TAATATAAAA TATAACTGTG CCCTTTCTTT TCAGTGATGA	200
10	TCAAAGTGAT TCTCCCAGGC CAAAAAATCA AATAAGAAGT TATATTTTAA	250
	AAAGACATAA CAAGCCATTC TACCCAGTGG GCATCTTCAG TGTACTCCCT	300
	CTACTAATTG GC	312
15	(2) INFORMATION FOR SEQ ID :826:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 189 base pairs	
20	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :826:	
	ACACCAAACA CGGGGAGTGG GGAGTAGAGG CTCTGGAGGT CAGGATGGCA	50
30	GGGCAGGGAG GGGAAGGAAG GAGTTGTTGG TCTCACAGTG TGCCTGCCAA	100
	TCCCAAAGCC CTAGAGACCC CTTCACTGCA GCACCTGCCC CCGGGTCTCA	150
	GGCAGCTTCA GGGCCAGAGA GCTGCCAAGG GCAAGCAAA	189
35	(2) INFORMATION FOR SEQ ID :827:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 232 base pairs	
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	ADV MODOLOGY. Name	

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(xi)	SEQUENCE	DESCRIPTION:	SEQ	ID	:827	:
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_	CTCTTAAGGG CTTGAAAATT TCTGTGGGAG TAGGACAGAG TGTAGAACGT	50
5	ACAGTAAAAG GCAATAAAAC AGTGGGAATA ATTTTACCAG CTATGAGTAA	100
	AGGAGTAATG GGTATTTACT GCCTGTCATT AATCCACAC TATATCCATT	150
10.	TTAGAGATTA TTTTGTTGCC TGGAAATCTG TCTCATCACA GAGTGTTAAT	200
	ATACACCGGC GGGATATTCA AGAGTGGCTA AG	232
	(2) INFORMATION FOR SEQ ID :828:	
15	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 282 base pairs	
	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	•
20	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :828:	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :828: GGACATTGGA ACACTATACT CTATTATTGC GGTCGTGCCT AGCAGTCTCG	50
25		50
25 30	GGACATTGGA ACACTATACT CTATTATTGC GGTCGTGCCT AGCAGTCTCG	
; ;	GGACATTGGA ACACTATACT CTATTATTGC GGTCGTGCCT AGCAGTCTCG CGCATGTCTC CTCAGCGCGC ACAGTCTCTC TCAGAGAGCT CTTCTCTCTT	100
30	GGACATTGGA ACACTATACT CTATTATTGC GGTCGTGCCT AGCAGTCTCG CGCATGTCTC CTCAGCGCGC ACAGTCTCTC TCAGAGAGCT CTTCTCTCTT TATATGCGCA GACCCGCAGA CTGGGAGACC CAGACCCAGG GCAAACTCTC	100 150
; ;	GGACATTGGA ACACTATACT CTATTATTGC GGTCGTGCCT AGCAGTCTCG CGCATGTCTC CTCAGCGCGC ACAGTCTCTC TCAGAGAGCT CTTCTCTCTT TATATGCGCA GACCCGCAGA CTGGGAGACC CAGACCCAGG GCAAACTCTC TTCTTAGGTA TATCGCACCC ATCATATCTC ACACATCGTG TATGTCGTAT	100 150 200

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 230 base pairs (B) TYPE: nucleic acid

417

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :829: CACTACATCC GCAAGTACAA CCGCTTCGAG AAGCGCCACA AGAACATGTC 50 TGTACACCTG TCCCCCTGCT TCAGGGACGT CCAGATCGGT GACATCGTCA 100 10 150 AGTGGGCGAG TGCCAACCTC TGAGCAAGAC AGTGCGCTTC AACGTGCTCA AGGTCACCAA GGCTGCCGGC ACCAAGAAGC AGTTCCAGAA GTTCTGAGGC 200 15 230 TGGACATCGG CCCGCTCCCC ACAATGAAAT (2) INFORMATION FOR SEQ ID :830: 20 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 226 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID :830: TTCCGCAAAT AAAAGAATTC ACTAAGGTAC CAAAACAGAA AATATACAGA 50 30 GATCAATGAC TTTCATATAC ATTAACAAAC AAAAGTTCAG AGATAAAATG 100 GAAGAGAAAT GCTGTTTTTA ACAGTATAAT TAAGATAAAA TATGAAGGTA 150 35 200 TAAACTTAAC AAGAAATGTT GCAAAACCAT TATGTGAAAA TTACAACACT CCTGAAGACG CAGACACACC TAACAA 226

(2) INFORMATION FOR SEQ ID :831:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 247 base pairs

. •	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
· 5		
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :831:	
10	AGAAGTCCTT CCAAGAGTCT TGGGTATGCA ACAGCCATGG AGGCTGTGAC	. 5
	CTTTTCCTT CTTTTCTACA GCCTGCAGTT CATTTAAGGA TCACCGGAGA	10
15	TGACTCGTGC TCTAGTTCTT AAAATCAAAC AAGGATCTGC CAAATCCAAG	15
15	ACCCTGAATT TGGCCCAAAT TTGTAGAAAC ATTGCTTTTT ACCACCCGGT	20
	GCACCAAAAA TACCTCCCAT TTCAAGGCAA CAACCGCTTT AATTGCT	24
20	(2) INFORMATION FOR SEQ ID :832:	
	(i) SEQUENCE CHARACTERISTICS:	·
	(A) LENGTH: 112 base pairs	
	(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		٠.
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :832:	
	CACCAGGCAG GGGATCCCGG AGGGAAGCCC TCTGCCAGGG ACATGGTGAG	5
35	GGCGTGGCCA TCACCCACGA AGGGAGCATA AATAACACTG GCAGGTGGGT	10
	GGGCAGCAGG AG	11
	(2) INFORMATION FOR SEQ ID :833:	
40	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 173 base pairs	

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :833: AGCCATTCCC ACTAGAGGCC AAACCGCCTG CCCACAGAGA TTGACAGCCA 50 ATGTTCATCT CATAACTCTC CTCCCAGCAG TGCACCAGTA AACTCAGATG 100 10 CCTGAGTGCT TGTGGCCACC ACACAACAGA TGCGGCCTTC CTCTTCACTG 150 173 GCCCCTCGGC TGCTGCTGGG TCC 15 (2) INFORMATION FOR SEQ ID :834: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 288 base pairs (B) TYPE: nucleic acid 20 (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID :834: TGGCCCATGG GAGCCCTTAT GAGCAAGTTT CCAGGTCCTT ATGACACAAT 50 TCCATCATTC TTCGGGTACA TCCTTACTCT CTGGCACAGT AGAGATGTTC 100 30 CAGACTTATC TTATATTTTC ACTTCCCCAT ACCTGGAATC AATCACTTCT 150 200 CCGAGGATGC TTGATTCCTT TTAGTGAAGA ACAGTCTTTG GAAACCAACC 35 GTCTAGGGAC ATCAAGTATG TTTGCCGCTA TTGGAGTGTC ATTGCTCCTG 250 AACCTTCTAA GTGGACACAG CTAGGAAATG TATGTGCT 288 (2) INFORMATION FOR SEQ ID :835: 40

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 310 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

	(b) Torobodi. Ilmedi	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :835:	
10	CTTTTCTATT TTCCTTAAGT GTCTGCCAGT CTGAGAAATA AAGGGACAGA	50
	GTACAAAAGA GAGAAATTTT AAAGCTGGGT GTCCGGGGGA GACATCACAT	100
	GTCGGCAGGT TCCGTGATGC CCCACAAGCC ACAAAACCAG CAAGTTTTTA	150
15	TTAGTGATTT TAAAAGGGGA GGGAGTGTAC GAATAGGGTG CGGGTCACAG	200
	AGATAACGTG CTTCACAAGA TAATAGAATA TCACAAGGCA AATGGAGGCA	250
20	GAACGAGATC ACAGGACCAC AGAACTGGGA CCAAATAAAG ATTGCTAAGA	300
	ACGTCTAGGG	310
	(2) INFORMATION FOR SEQ ID :836:	
25	A CONTRACT CUADA CHEDIT CHI CC.	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 177 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
30	(b) ToroLogi. Timear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :836:	•
35	TCAGTGGAGG AATTAAAACT GGTGGAGAAG GGGAGGTCAG GTTATCAGTT	50
	GAAATGCCAA GGTTATCTCT AATCTTAGCT AGATTCTGCC AAAGTTCACA	100
40	GAGGTAATCA AAAACTTGAG CATGTATTTA AGGATCCATG ATTGAATTTA	150
	CATCTCCCAA AATGCCTAGC ATTCTTC	17
		•

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(2) INFORMATION FOR SEQ ID :037:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 135 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID :8	337:
CCGTTGCACT TGGTGTTGGC ATTCTGCAGG GCGGCACT	TCT CCCACTCTTC 50
CCGGCCTCGA GCCAACCTGA CGGCAGCCAG ATGGCAGT	CCG TAGTGCACAA 100
TGTTGAAGTG GGACACGGTG CTGTAGCCCT GCTGT	139
(2) INFORMATION FOR SEQ ID :838:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 201 base pairs	
(B) TYPE: nucleic acid	

(xi) SEQUENCE DESCRIPTION: SEQ ID :838:

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

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					•
TCAGTGGAGG	AATTAAAACT	GGTGGAGAAG	GGGAGGTCAG	GTTATCAGTT	50
GAAATGCCAA	GGTTATCTCT	AATCTTAGCT	AGATTCTGCC	AAAGTTCACA	100
GAGGTAATCA	AAAACTCGAG	CATGTATTTC	AGGATCCATG	ATTGAATTTA	150
CATCTCCCAA	AACGCCTAGC	ATTCTTCGCC	ACATTACAGT	AGCAACATCA	200
G					201

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35

(2) INFORMATION FOR SEQ ID :839:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 181 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

	(xi) SEQUENCE DESCRIPTION: SEQ ID :839:	
10		
	TTCTTTGGAG TACATCCTTA CTTTCTGCAC AACAGATGAG AGATGTTCCA	50
	GAACTTATAC TGTATCATAT ATTTTACCTC CCCCCCTATA CACCCTGAGA	100
15	TATACATATA CACTATCTCC GCTAGAGAGA TGTCTATGAC ATATCACTTT	150
	CTGAGATGTA CACGAACGAG ATCTTTTGAG A	181
20	(2) INFORMATION FOR SEQ ID :840:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(F) LENGTH: 222 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :840:	
30	CARLOS AND AND CARLOS AND CARCOUN DAMPS OF CARLOS AND CARCOLOGICAL AND CARCOLOGICAL CARCOLOGICA CARCOLOGIC	50
	CATACAAATG ATTAGAAAGC AATACAGCCT TATTGCTGAT ATGGAGAAGG	30
	TTTTAGTGAA CATTCAGAGG AGTTTGGAAG AAAGTCGCTG CACAATCTTC	100
35	ATGGATGACT TTGAGGGATT CAAGACTTCA GTGGAAGAAC TAACTGCATA	150
	TGTGAGTAGA AATGGCAGGA GAACTAGAGT TCGAAGTAGG AGCTGGAAGA	200
40	TAATAACATG GGTTTAAAAA AC	. 222
40	/2) INFORMATION FOR SEC ID :841:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 293 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
		•
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :841:	
10		
	CGCTCAGCTG GTCTATCCTG CTCTTCCTCT TGTCCTTGCT CTTGCTGCGG	50
	CTCCTATCTA CCGGCTACCT GCTGCCCGCT TTGCTCCTGC TACCGGCTCC	100
15	GACTCTGGCG GAGGCTCTTC TCCTGGCTCC TGCCCCTGCT CACAACTCCC	150
	TCGCTTCTCC TCCTCCACTC TCCTCTCCCG ACTCCTGCTC CGACTTTTGC	200
	TCTTACTTTT ATGCCTGCTA GGACTCCGGC TCTTGGGTTT CCCGAACATT	250
20	GTCATTGTTT TGGAACTTCT CCTTCAGCTT GGTCTTTTGC CGG	293
	(2) INFORMATION FOR SEQ ID :842:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 239 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
,	(xi) SEQUENCE DESCRIPTION: SEQ ID :842:	
35	ATGAGGAGGT GAGGAAAAGG AGAAGTGCAG CTACCATCGA GTGATTCTTC	5
	TGGGATAGGT GTCTCATTA AATCTCATAA TCATCTTTTT TGGCAGGTCA	10
40	GTCAACTTCA GGCTCACAGA TGACAGACAG TTGGCCCAAA GACACACAGG	15
40	AAATACATAA GTGACAACGG AATACAAGTC CATGAATTAA AAAACCATGC	20

	TTTTCTCTCC TTGCCACACA GCTTTAGTTT GAAAAAAAA	239
	(2) INFORMATION FOR SEQ ID :843:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 154 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :843:	
15	TTCCGAATTA TTGAATCTTC TTCTGTAACA TCACAATCTT CCTGGTTTTC	50
	AGAATAAACG CTCTTCTCGC TCGCCTCTCT CTGCACTCAC TCCCACCTCA	100
20	CTCACTCACT CTATAATAAA ATGTTTGCAC TCAATTTATA TAGTAGTGTT	150
	TGTC	154
	(2) INFORMATION FOR SEQ ID :844:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 392 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :844:	·
35	GTCTTTAATT GAGAAAGCTG GAGTGGAGAC CCGATCCCCT GGGAGCAGTG	50
	CCAGGAGTTG GGTGGAGACT GAGTGGGGTT TGTGTGGGTG AGGGGGCATC	100
40	TACTCCTCTT GCAACAAGCC AGAAGTAGAA CAGCCTAAGG AAAAGTGACC	. 150
	TGCCTTGGAG CCTTAGTCCC TCCCTTAGGG CCCCCTCAGC CTACCCTATC	200

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	CAAGTCTGAG GCTATGGAAG TCTCCCTCCT AGTTCACTAG CAGGTTCCCC	250
	ATCTTTTCCA GGCTGCCCCT AGCACTCCAC GTTTTTCTGA AAAAATCTAG	300
5	ACAGGCCCTT TTTGGGTACC TAAAACCCAG CTGAGGTTGT GAGCTGTAAG	350
•	GTAAAGCAAG TTCTATCCAA TTAGAAGCTG TTGGGGGCGT AT	392
	(2) INFORMATION FOR SEQ ID :845:	
10		
	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 200 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :845:	
20		
	CAAAGAATAA ATAATTTTTC TATTCCTGAA AGTTAACTAA TTATTTATTA	50
*	GAAAGTCAGA AATATGTGGA AAGCAAAGGA ATATTTGAGA AAGTGATATG	100
•		
25	AAATTAATAA GTGGTAAAAA ATTAATAAAA TTAATATTAG AGTTTCCTTT	150
	·	
	GAGCTAATCC TTTATTTATT TATTTTTTC CTTGAGACAA TGTCTTGCCA	200
	(2) INFORMATION FOR CRO ID . 046	
30	(2) INFORMATION FOR SEQ ID :846:	
30	(CROUDING CUADA OMERA CONTO	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 311 base pairs	
	(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :846:	
40	(vi) apparage apparaition; app in :040;	
70	\cdot	

TTAAAAATAC TCTGGAAAGA GCACTTCCAT CGTTCATTTA CATCATATTA

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	GAAATGGATT TCCGAGTCAG CACTGGCTTC CTCCAGAATA GCAGTCCTGG	100
`.	AGGAGCGAGA TCTCCCCAAG CCTCCAGGAT TGCAGTCTGT TTGTGCCTT	150
5	CACTCCCTAA TAGGTTTGCC TTATTTAAAG GACCCACCTT CAGAGCTGCC	200
	AAGGACTTTC TCAGAGCAGC TCCTTGGTCC CTCCGACAGC CTGGGATGGC	250
10	ATTTATTCTG GGGCCTGGGT GTGGGGAGGT CCTCACCAGC CTAGGAGTAA	300
10	GAGGAGGTGG T	311
	(2) INFORMATION FOR SEQ ID :847:	1
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 287 base pairs	
20	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :847: CAGATCAAGA CTGGTGCCCC TTGCCGATCT GAGCGCTTGG CCAAGTACAA	50
	CTCAGCTCCT CAGAATTGAA GAGGAGCTGG GCAGCAAGGC TAAGTTTGCC	100
30	GGCAGGAACT TCAGAAACCC CTTGGCCGGG TAAGCTGTGG GCAGGCAAGC	150
	CCTTCGGTCA CCTGTTGGCT ACACAGACCC CTCCCCTCGT GTCAGCTCAG	200
	GCAGCTCGAG GCCCCCGACC AACACTTGCA GGGGTCCCTG CTAGTTAGCG	250
35	CCCCACCGCC GTGGAGTTCG TACCGCTTCC TTAGTCT	287
	(2) INFORMATION FOR SEQ ID :848:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 263 base pairs	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

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(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :848:	
	GATTACAGGT GTGAGCCACC GTGCCTGGCC TATTAATATG CTCTTAAAAC	50
	TCATCCATAC GTTTTCATAG CAAGAAAGCT TATTTCTCCC AACTACCGAA	100
10	TAATATTCTA TCGTATGGCC GCACCTCTGT TTATCCATTT ACCTATCGAG	150
	AGGCATCTTG ATTACTTCTA GCTTTGGATT ATTACAAATA AAACTATACA	200
15	AACACGCAAA CAGAGTTTCT CGTGTGAATA TAAACCCGCA AACCGGCTGG	250
	AGGCATATNA CCA	263
20	(2) INFORMATION FOR SEQ ID :849:	•
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 279 base pairs (B) TYPE: nucleic acid	•
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :849:	
30	TTGTCAGTCA GAATAGGATG TAAAAGACTA TTTCAAAGAG TTAAATTATT	50
	TGTTAATATC AGAGATCAGC CACAGACAAG AAGTTTATGG ATGAGTGCAG	100
35	CAGTGGTCCA TTGGACATGT TAAATACTCG TGGATATCCA CAATTCGAAT	150
	TGACATTAAA AACGAATGGA TACCCAACTC TGAATTCCAT ATCGTTTTTT	200
40°	AATATCAAAA ACACAATTTT AACTACTGAT AAACCAGGCA ACCACCGCAA	250
	GTTTATCGAA ATCCTGCCGC TACTAAACA	279

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	(2) INFORMATION FOR SEQ ID :850:	•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 173 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :850:	
	GCTGAAAGTT GAAGTGGAGA GCTTGAAACG AGAACTCCAG GACAAGAAAC	5
15	AGCATCTGGA TAAAACATGG GCTGATGTGG AGAATCTAAA CAGTCAGAAT	100
	GAAGCTGAGC TCCGACGCCA GTTCGAGGAG CGACAGCAGG AGACGGAGCA	150
	TGTTTATGAG CTCTCGACAG AAT	17:
20	IGITIAIGAG CICICGACAG AAI	٠,٠
20	(2) INFORMATION FOR SEQ ID :851:	
	(2) INIONIMIZED TEN DEG ID TOOLS	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 240 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :851:	
	TCGAGAAAGT TTCAATGTGA TTAGATTAAA ATTAAAAAGAA TCCATAAAAA	5
35	TGGAACAAAG AAGAAGAGA ATGAAATTAC TTTTACTTTA AACAGCATTG	10
	TTATCACATA AAACACGTAT CTTACAAATT CATGGGATAG CCCATAAATG	15

AGCAGGAATT TTCTGTTAAA AATATTTTTG CCGTAATACT

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(2)	INFORMATION	FOR.	SEQ	ID	:852:
-----	-------------	------	-----	----	-------

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 314 base pairs	
5	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :852:	
	ACTGGACTGG TCAAGAACAA AGCTCATGGC AATAGTCTTT TGGAATGTTA	50
15	AAGGAATTTT TCTAGTTGGC TTTCTGGAGG GCCAAAGAAC AACAACATCT	100
•		156
•	GCTTATTATG AAAGTGTTTT GAGAAAGCCA AAGCTTTAGC AGAAAAACAC	150
	CTGGGAAAGC TTCATTAGAG AGTCCTTCCC CATCACAACG CTTCTGCTTA	200
20	Cloudnade Healthand Adicellede Calendande Clicidella	. 200
	TTCCTCTTAT AAAACAAGGG CAATTTTGTG AGAGCTACTG ACGATTTTCC	250
•	CCTCGAAATT TACTATTTCT ACAGCTTATT AATCTCAAAT AGTAAGCATG	300
25	TCCTTGCCGT CACT	314
	(2) INFORMATION FOR SEQ ID :853:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 267 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	٠
÷	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :853:	
	(SE) ====================================	
	TCCTGAAATA CTCTCTACTG TCACTGCTTC AGTTTAATTT ATAGATAGCA	5
40		

CCAGATATGA GTCCTTATTA GTTCTGATAA CTCTGAAATG GTTATTTGGT

	ATTTCTTCAG TGACAAGCAA ACTATCCCCC CACATGCCTT TAATGGCCAG	150
	TGTTTTCGAT TTGTATACCA ATAAGCAATC TAGGTAGAGG TAATCATATA	200
5	CTGATACGCT AACCTTTGAA ACATAATTTC CAATCTAGTA AGCTAAAATC	250
	GCGCCAATAC TGCTTAA	267
	(2) INFORMATION FOR SEQ ID :854:	•
10		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 186 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	TO THE OFFICE PROPERTY OF THE OFFICE	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :854:	
20	GCAGTGGATC TTTCTTTTT TCCAAAGGAA ATTTCATATA GAGTCCATTC	50
	ATAGGAAACA GATAAAATGT GAACGGCTGC AACTGAGATG GGGGAGAGTG	100
25	GCTTGGAGCC CCCAGCCTCT TTGCTTTCTC TTATCCCTAT AGGATGGCCA	150
	TTAGGTGAAG CAGTTTAGCT TGTTGGTTCA GACCTG	186
30	(2) INFORMATION FOR SEQ ID :855:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 162 base pairs	
	(B) TYPE: nucleic acid	
٠	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
-		
_	(xi) SEQUENCE DESCRIPTION: SEQ ID :855:	
40		
•	ATTTTGAAAA GAAACCTACA AAAATTGTAT TTCCATATTT CATAGTCAGC	50

	CAAAAATATT GGTCAACTCA TGCTCTCTGC AAGGTTCTGC AAAAATTGCG	100
	GAGTGGTATA GACAAGGCAC CATTGCAATA TATAATACTT TTTGGGTATT	150
5	GGCCCAAAAA TT	162
	(2) INFORMATION FOR SEQ ID :856:	÷ .
	(i) SEQUENCE CHARACTERISTICS:	•
10	(A) LENGTH: 286 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :856:	
20	TCTGTGGCCA CAGATGCATA TTACAAGCCC ATCCAGAGCC ATTATGAAGA	50
	GAAAGTGGCA ATTTTATTCT CAGCCTGAGA AATCCACACC AATCTAGTCT	100
,	GGGTTTCCAA GGATCTGCCG TTTAAGTCAC TTAGCCTCTA TCCTTTCCGG	150
25	GAACAACCTG CCCCTAGAGA GGGTGAACGA GAATCGTCCC CAGTGCCTCC	200
	AACATAACAA ACCCAATCGC CCTGTTAACT TTAAATCTTC AACTCGAGAA	250
	AAAGGCTCAT GACTACTTCT AACCATGCCC AAACCC	286
30	(2) INFORMATION FOR SEQ ID :857:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 280 base pairs	
35	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

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(xi) SEQUENCE DESCRIPTION: SEQ ID :857:

	AACTATATGG TATTATTTCA CGCTGTACCC AGTCCATTGC TTGAACTTAC	50
	GGGTACCTAA TGAAACGTGG AGGTCCGGAT GTATGAAAAT CTCCTCTTTT	100
5	CCCCTTTACT TACAGCCTCT GTAGGCAATA ATTATAGAGT AGTATAGATG	150
·	ATTTTTCTTT TTTATAAATC TGCCTATCTC CAGGAGGATG GGGCGCGCAC	200
10 ·	TTTTAGAAAT GCATATAAAT GCTCTACGCT CCTTTTTTCT GTTACTTAAT	250
10	CGGCGCCAAG GCCTTTACAT GAATACTCAG	280
	(2) INFORMATION FOR SEQ ID :858:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 310 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :858:	
25	CACTGGTTTT CATGACTGAT TTCTTTATTT TTAGTAGTTC TGACATGTTG	50
	GCCAGGCTGG TCTTGAACTC CCAGCCAACC TCAAAGTGCT GGGATTACAG	100
30	CTGTGAGCAC CAGCCCAACC TCGCCTCTTT AAAAAGAAAA AACACAAGTC	150
	CACTCTGAAG TCAGCCTCTG TAACCTCCCC ACAAGAAAAC CGTTTTACAT	200
	CAGTCACTAA CCAAACAACC AACAGTGCTT CAACACAGAA AGTAAAGCAT	250
35	TATACAGGGC TTGAACTGTC TTTTAAGCAA GCCCCAAATC CTTTGAAAGG	300
	AGGCAGTAAC	310

(2) INFORMATION FOR SEQ ID :859:

40

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 158 base pairs

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(B) TYPE: nucleic acid(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
. 5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :859:	
10	TCTGTGTGGA GGGGAGGGAC CCAGTCTGGA CCCAGGTGTC ATCATCTCAG	50
	CCACAGCAGG GCCCTCTCAG GCTGGGAAAC TTCTGCCAGA GCTGGCGAGT	. 100
	CCTCTGCAGG TCAAGCCAGG GCTTGGACAC AACTACTTCA TCTATCGCGC	150
15	AGGAAGAG	158
	(2) INFORMATION FOR SEQ ID :860:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 263 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
÷	(xi) SEQUENCE DESCRIPTION: SEQ ID :860:	
30	TTTCTAATAA GAACATAAAA TAAAGGCTAA TTAAAAGAAG GTGACTGAGT	50
	CCAGGAAGGC ACTAATCAAA GATGATATAC AGCCAGGTAA AAAAGAACAA	100
	TTCACAGGCA CAAGACTATA TAACCATCGT TTTATTTTCA AACGTTATAC	150
35	AAAATATACT CTACCGAACT ATAATAGATC ATTAATAGTG GCACAATCTT	200
	TAGATTCGGA ATAACTTGAA AATAAATCCC AACCACGTAA CTTACTAAAG	250
40	GAATAATGAG CCA	26
- -	(2) INFORMATION FOR SEQ ID :861:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 254 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :861:	· .
10	ATTTGTCTGA AAAATATATT TCTACACGAT CTGATAAAGT TCAGATAAGG	50
	GGCATTCTAT TCCTAAGAAT GTCCTAAAAA TGGAAAACTG ATAAAAGATT	100
15	ATGCTTAGAA TTATACAGGT AAAAGACCTA CAACAATTGT TCTCTTGTTT	150
	TGATCCCATA GGTCATTTGT TATTACTCTT CTTCAACAGA GTGATTTTCT	200
20	ATTATAAACT TTCTTAGGAG CCAATACAGA GTAGAAAGAA ATATTTTCAG	250
	AAAG	254
	(2) INFORMATION FOR SEQ ID :862:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 3 base pairs	
	(B) TYPE: nuc _c acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :862:	
35	GTTCCTCCTT TGTAAATTAT GAAATATTTA TAGTTTAGAC TGAGTAATAT	50
	GACATGAAAC AACAAACCTG CACATTTCTA ATTTATAACA AATCCGTTTC	100
40	CTTAATGGGT GGAAGGAAAT CTGAGGACAA TTCTAAGGAG TCTTGTCTGC	150
	TTTCAGTGCG ATCTTCTAGT CATACTGAAG ACAATACCTC TCCAGATTGA	200

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	TCTTTCCCCT TCTTATACTC TTCCCGATCA ACGTCAATCA CACGCACCAC	250
	TCCAGGTTTT AGACTTAGGT CATCCGTCTC TACCTGACTT CTGTTGCCCT	300
5	TCACCTACAC GTGGCTCGCT TTAGTTTGCT GAGCAGC	337
	(2) TYPODYARION FOR CEO ID .962.	•
	(2) INFORMATION FOR SEQ ID :863:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 169 base pairs	•
10	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(b) Toroboot. Timeat	
15		
. 13		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :863:	
•	(XI) SEQUENCE DESCRIPTION. DDQ ID .000.	•
	TGGTGGGTTC GAGCCCAACT TCAGCGCTCT TCGAGAAGTG CGAGGCGAAC	50
20		
	GGTGCGGGG CGCCTCTCCT CTCCACCTTC CTGCGGGAGG CCCTGCAAGC	100
	TCTCAGCGAC GACGCCACCA TCTTCTGACC AACTTCAGGC TACTACCCCA	150
25	ACTTACAATG CCACCGCGA	169
•	(2) INFORMATION FOR SEQ ID :864:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 286 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :864:	
	ATTAAGGTAA AGGAAGACTT TCCATTGTTA AGTAGAAAGA GTGTCCTGCT	50
40	ATTANGGIAN AGGANGACTI TECNITOTIA AGTAGAMAGA GIGICETGET	3(

ATTACTACCA TTCACATCTA GTTTGTGTGA ACTAGGGTTT TCTATCTTAA

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	CCCTGTTAAA AACAAAGGAA AGAAATGGGC TGAATGGCGC ACCAGCTATG	150
	CGGATAGCAT TATCTTCCTG TGTTCCAGAC TGGAATGAAT TTATGAACAA	200
5	GGCAAGCACA CCATTATAGT AAATAAAATC TTACCTAGTT TTCGTTTTTG	250
	CATTTCTTAC TTCGCAGTAT TTCTCCCGCC AAGAGC	286
	(2) INFORMATION FOR SEQ ID :865:	
10		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 272 base pairs	
	(B) TYPE: `nucleic acid	•
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :865:	
20	(XI) SEQUENCE DESCRIPTION: SEQ ID :803.	
20	ATATAGTCCG CTAGGGATAG TGAAAAATTT GGGGCTTGGT TTAGATTGGA	50
	GAGGTATATG GTGGGGTGTC TTATAAGGCT TAACTTTGGG AGGGCCCAGG	100
25	GCCTTGATTT CTGTCCCCCT TGCCTTGCGT GGCCTTTGAA TTGAAAGCTT	150
	TGAATTAGGC CTTCATAGAT TTTAGTGTGC ATACAAATAA CACGATCTTT	200
30	TTATAAGGCA GATTATGATT CTGAAGGTTT AGTGTGGGAC CCAAGCTTTC	250
	GCATTTCTGA TCTATAAGGT GA	272
	(2) INFORMATION FOR SEQ ID :866:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 296 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :866:	
	ATGCAGGAGA AGAAGGATGC CAAACTAAGT CAAAAAAACG GAACGCAAAT	50
5	AAAAGGAATG AGCACGGTTA CAAAGTCACA GGATGAGTCC CTGGGATCTG	100
	GGGCGGAGA AGGGGTGAAT CAAGAATGAC TTGAGCTTGT TACTCCCTAG	150
10	CAGGCTGAGG GCGTGACACA GCAGCTCGAT GACAAAGAGG TCTATTATAG	200
10	TTTCTAACAC TACAACGCTA ACTTTTGGAA CGTATCTACT TCTAGCATGT	250
	AGACAGATCT CTAATCGCCT GCCAGACGGT AAGCCGCAGG AATGCG	296
15	(2) INFORMATION FOR SEQ ID :867:	
	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 241 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :867:	
	TATTTTATCT CAACATAATA AAAACGACTA TAAATCTTCC TAAGAGAATG	50
30	CTCTACTCCC AAGACTAATT TAAACTCGGG GATCGTCAGA GGGAGTGCCA	100
	CTGTGACTTC TACGATGAAA GAACAAGGGA GAGAAGATCT TATCGACAAT	150
	CATACAAAGC CATATATACG CTATTCCTCA ACTCACAGAG TTAATTAAAT	200
35	GTCACCAGGA TGGAAGAAAC CTTATAAGCC CCTATCTATC A	241
	(2) INFORMATION FOR SEQ ID :868:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 130 base pairs	
	(B) TYPE: nucleic acid	
	4-1	

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(D) TOPOLOGY: linear

	\cdot	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID :868:	
	GGACGACTGC AAGCTGGAAC TACACACGCG CACTCGCTCA CACTACACAC	50
	ACGCCACTCT CACACACTCT CACACACGCA CCCTCTCGCG CATGCTCTCT	100
10	CAAAGCCCAA TATAACCAAG GGGAAGGAAT	130
	(2) INFORMATION FOR SEQ ID :869:	* :
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 310 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	. •
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :869:	
25	TTCAAATATT TATGTATGTT TGAACATTTT CATAATAAAA TGTTGAAAAA	50
٠.	CTAATGAGAA TGGCATAAAC AACATTTAAG CAATATATTT TGAAATTTAA	100
	TTCAAATGGT CAAATTCCTG GAAAACACAA ACTCCCTTCA CTAACAGAAT	150
30	TGATAGAAAA TCTGAGTAGT TCACCATTGT TAAAGAAATG GAATGTGCCA	200
	TTTAAAACCC TCCAATTGAA AATACTACAT ATAGTTACAA TAGGGAATTT	250
35	TCCCAAGCAC TTAAACAATA AACAATGCCC TCTTTATACA AACCTTTCCC	300
	AGTAATAGAA	310
	(2) INFORMATION FOR SEQ ID :870:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 192 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :870:	
	AAAGAGGCAA GTTCCTGGTG CAAAGGTGGC TCTGCAGCAT AATTTAGGCA	5
10	TTGGAGGAGC TGTGTGTTGT AACACTCTAC AAGATGGGTT TTCCGGAAGC	10
	CGCCAGTTCT TTTAGAACTC ATCAAATTGA AGCTGTTCCA ACCAGCTCTG	15
15	CAAGTGATGG ATTTAAGGCA AATCTTGTTT TTAAGGAGAT TG	19
	(2) INFORMATION FOR SEQ ID :871:	•
	(i) SEQUENCE CHARACTERISTICS:	-
20	(A) LENGTH: 250 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(vi) SEQUENCE DESCRIPTION, CDO ID .031.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :871:	
	ACCATAGATG TGTTCCAGAG GCAAAAGAGA CACATTATCC TAGATGGCAG	50
30		
	AACATGCTTT CAAAACATAT AAAACGTCAA AGTTCCAGAT CTTTCTACAT	100
	TTTAAATCCT GTCTGAGGAT GGCAGCTGAC TTTATGTAGC TGATAGACGA	150
35	CTAGAGTTTC ATCCAAATAC CTGACCACGA CTTCATGGAG ATTTGAATAA	20
	TCTATCCGAT GAGATTTATA TNTAAACAAC TCAACTCCTG TCGAAACAAA	250
	(2) INFORMATION FOR SEQ ID :872:	
40		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 313 base pairs	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
: '		
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :872:	
10	TCAGCTACGA ATTGCTTCCT TCTCACAGAA CTGTGACATT TATCCAGGGA	5
	AGGATTTTGT ACAACCACCT ACCAAGATTT GCGTGGGCTG CCCCAGAGAT	10
	ATACCCACCA ACAGCCCAGA GCTGGAGGAG ACACTGACTC ACACCATCAC	15
15	AAAGCTTAAT GCAGAGAATA ACGCAACTTT CTATTTCAAG ATTGACAATG	20
	TGAAAAAAGC AAGAGTACAG GTGGTGGCTG GCAAGAAATA TTTTATTGAC	25
20	TTCGTGGCCA GGGAAACACA TGTTCCAAGG AAAGTAATGA AGAGTTGACC	30
	GAAAGCTGTG AGA	31
	(2) INFORMATION FOR SEQ ID :873:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 270 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	. •
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :873:	
35	TAGATGCTGA TGGCAATGAC ACAATTGACT TCCCTGAATT CCTGACAATG	5
	ATGGTAAGAA AAATGAAAGA CACAGACAAT GAAGAAGAAA TTAGAGAAGC	10
40	ATTCCGTGCG TTCGATAAGG ATGACAATGA CTATATTAAC GCTGCAGAAC	. 15
	TTAACCATAC AATGACAAAC CCCGAAGAGA AGTTAATAAA TGAAGAAGTT	20

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	GATGAAATGA TCAAAAACGT AGATNATTGA TGACGATGGT AAGGTAAACT	25,0
	ATCCAGCGTT AGCACAAATG	270
. 5	(2) INFORMATION FOR SEQ ID :874:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 229 base pairs	•
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :874:	
	TTGGGCCATG TCCCCATTTT ATCTCCAAAG CCAGCCATGG TGTATTTCTC	50
20	TCTGCTTTTC TTCCATATTT CCAACCCAGA AATGACTCCT GTTCCCATAT	100
	GTGATTATTA TATTGCGCTA ACCCAAGTGA TTAAGGATAA TCTCACTACT	150
	TAATGACAGC TGATTATTTC CATCTGCAAA CTTACTCAAG AATGCAATCC	200
25	AGACTAACAC GACAATAGGA CATCAAGCT	229
	(2) INFORMATION FOR SEQ ID :875:	•
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 294 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :875:	
40	TTTGAACTTT CAGCCGAATA CATCTTTTTC CAAAGGAGTG AATTCAGGCC	50
		:

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	TGGTCTTGAC CAGCCTCTCT CATGCTTTTG GCCAGACAGA CATGTCGAGG	150
,	AAGGCTTTTG TGTTTCCCAA AGAGTCGGAT ACTTCCTATG TATCCCTCAA	200
5	AGCACCGTTA ACGAAGCCTC TCAAAGCCTT CACTGTGTGC CTCCACTTCT	250
	ACACGGAACT GTCCTCGACC CGTGGGTAAC AGTATTTTCT GCGT	294
10	(2) INFORMATION FOR SEQ ID :876:	· .
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 173 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
15	(D) TOPOLOGY: linear	
.*	(5) 55552555 52552	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :876:	
	ATTTTTGGTA ACATACATCA AGTGGCACTA ATTACACAGT AACTATAAGG	50
	TAACTAACAT GAAACCACAG AACTGTAACT CTGCCACAGC TGCATGAACT	100
25	CGGGTTGTCC TGACCGAGCC CATCCCCAAA AAACCGCCCA CCCCAGAGCT	150
	ACGCCAACAA AAACCGTTAT TAA	173
30	(2) INFORMATION FOR SEQ ID :877:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 143 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :877:	
40		

TAATCAAAAG AGCTCTAAAT CTGTAATTTC TTTCTCCTTT AAAAAAATGT

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	CTACTTTGTT TTGGTCCTAG GCATTAGGTA ATATAACTGA TAATATACTG	10
	AAACATATAA CGGAAGATGC AGATGATAAA ACTAATTTCG AAC	14
5	(2) INFORMATION FOR SEQ ID :878:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 213 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
:		
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :878:	
	ACTGAATAAA CTGCTGATGT CCAGGTTCAG TGGTTCCTGC TGTGGGACTT	50
20	GCGTTTTCAC TAAGTGTGGC GTTAGATCCA TTAGTTCCCG AAGAGCCTCC	100
	AGTGCTTCCT AATGCCCCCA AGCCAGGAGT AAACCCTGGA ATGAGGCCCA	150
	GGGCTTCTAT TGCTAATGCC TGTAAACCTT GCTGAATCTA TAACAGAGTC	20
25	TATACCGCTC TCG	21
	(2) INFORMATION FOR SEQ ID :879:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 227 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :879:	
40	AAAGAAGGAA AAGAAAGAAA TAACACTTAA CAGTCCATAA CAAAGTGTTA	5
	ACGAGATAGA CACATGCTTA TTCAAACCAC AGATATGATC CAGTTAATTC	10

	CCTTCTTAGA ATGTGCCCAT AGTGCCTTAT TGCCTCATAA TAATGATAAT	150
	AATAAGAGCA ACAATAATAA CGGCACAAAC TCCAGTCGAT ACTGACAAAC	200
5	TACCAGAGTA ACCGTCATCC CCTTGAG	227
	(2) INFORMATION FOR SEQ ID :880:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 221 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
13		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :880:	
20	ATAGACAAAG TCCTTCCCAC TAGAACTTAC ATTCCAGTGG GAAGAATTAG	50
2.0	AAGCCTCAGG AATTCCATTG CTTACTTTTA GTTGTTACTT CAAAAGTACT	100
	TACATTTAAT CTGATTATTA ATTATTCGTC ATGAGCTTCA TTTTATTACA	150
25	TCCAGGGCAC AGTATGTGAA TTGTGTTTCG TTCCTTTAGG AAAAGGAAAA	200
	ATAATCACTC TTTACAAGGT A	221
30	(2) INFORMATION FOR SEQ ID :881:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 310 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
35	(D) 10POLOGI: 11hear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :881:	
40	(and a manage of the same of	
	AATTGTGGTA TATTTCATTT AAAATCGATC AAAGACAGCA ACATACATTA	50

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•	ATCAGAGGAA AGCATCAATT AAATGCAGAA ACAAGATTTA AACAAAGATT	100
	CATATTAAAA CAATGATAAG TAATACTTAG AAACTGCATC CTAGAGACAC	150
5	ATCATTCGCA TTTTTAGAAA AACAGAAACA TATTAGTGTG AAAAGATGTT	200
	AAAAAATGAA TATTAAACCG TCGAGCACAA CACACTACGC CGATAACAAT	250
10	ACACCACAAG CGCCGTAATC CTGCCGACAC TGACACACTA CAGGCGTCGT	300
	GGCGATCCGA	310
÷	(2) INFORMATION FOR SEQ ID :882:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 177 base pairs	
	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
20		
		,
	(xi) SEQUENCE DESCRIPTION: SEQ ID :882:	
25	GTTCACATCA GTGTGTAGGA TATGCTATCA CGTATGTGCA TGAGAAGAAT	50
	GGAGAAAATG GATCTATGCG GATGTCTGTA CACACACAC CACACACATA	100
30	CACAACAAGC TTGCACATGT ATAGAGGATC CGAAATTCCA CCAATACTGA	150
	CGAACTACAA ACGTAACAGC AGCAGGC	177
	(2) INFORMATION FOR SEQ ID :883:	÷
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 152 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40 ⁻		•

	(xi) SEQUENCE DESCRIPTION: SEQ ID :883:	
	CAATTCTATT TTCAGAGTTG ACTGTACTCT TTTCCTCTGA AGATACACGT	50
5	ATAAACGCGA CCAACGAGGT CTCTCGTCCT AATAACAGGT TCAGGCATGA	100
	ATCACCGTCT AACAGCTATT TAAACACCGC CTCTTCATAG AAGTAACGCC	150
10	GA	152
10	(2) INFORMATION FOR SEQ ID :884:	
	(i) SEQUENCE CHARACTERISTICS:	:
	(A) LENGTH: 177 base pairs	
15	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
•		
20		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :884:	. •
	CCATAATATA AGTATTTATC ATGTATTCTG TGTCTGGAAT ACAATTCAAT	50
25	GACCTATTTC AGAAAAATCT TTTCAAGTAC TGGCTGAAAG AGTGAGGGAT	100
	ACATTAGGAG ACTGCAAATA AACTGGCAAT CACAAGAACT TTTTCGGATA	150
	AAATGAAATT GTGCCGAAAT GTATACA	177
30	(2) INFORMATION FOR SEQ ID :885:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 241 base pairs	,
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	

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(xi) SEQUENCE DESCRIPTION: SEQ ID :885:

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	CACAGCTGGA AGAGCGGAGA AATAGAATTG TCTTCAAACA	ATATAAAAAT	50
	TCATAAAGAA TAGAAAGACT ACTATGTGTG GGTCGGGAAA	TTAACTAGAA	100
5	TTTTTTTATA TCCACACTCT AGTATGAAAT GAGTACTTAT	AGAGTAGAGT	150
	GTAACATATT TAGACATAGT ATATATATA ACAAGTGTAA	САААТАТАТА	200
10	TATTAAATAT ATATATGTTT TATAGAAACA CAGAGCACAC	A	241
	(2) INFORMATION FOR SEQ ID :886:		
	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 190 base pairs		
15	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
•			
20			
	(xi) SEQUENCE DESCRIPTION: SEQ ID :886	•	
•	GTAGCAACCG GCGCTCAATA AAATTCAACC AGCAAACTCG	ACAAGTAACA	50
25	ACCATAAAAC CAGCCACACT AAGTCCAGCC ACCACTACTC	ATAAAAATA	100
	ACACGTATCT TCCACCGTAC AACCAATAGC AACTGCAGGC	TACTGCAACG	150
30	CCATCCATAT ACCAAAAATG CTACTTACAA CACCACAACA		190
	(2) INFORMATION FOR SEQ ID :887:		
	(i) SEQUENCE CHARACTERISTICS:	·	
	(A) LENGTH: 168 base pairs		
35	(B) TYPE: nucleic acid		•
	(C) STRANDEDNESS: double	•	
	(D) TOPOLOGY: linear		
•			
	· •	,	

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(xi) SEQUENCE DESCRIPTION: SEQ ID :887:

*	CACGCTTTCT CTCACACAGC ACTAGCGCTC TCTCACTATC ACTCTTCTCA	30
	CAGAGCTGCG CGCGAGTCTC ACTACTATCA AATATATCTG TCTCTTCTCA	100
5	CTCTATAGCT CTCTCACAGA TATATATCTA CATATAGCGC TCTCATTATA	150
	CTATAATATT ATACTCTC	168
	(2) INFORMATION FOR SEQ ID :888:	
10		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 174 base pairs	
	(B) TYPE: nucleic acid	* :
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
		-
	(xi) SEQUENCE DESCRIPTION: SEQ ID :888:	
20		
	ACTGGGCGCG CTGGTGCTGA CATCTTCAAG AGCATCTGTC ACTGAATATT	50
	GCCGATCTCG CAACCGGTTC CAGTTAGACA GAACATTGTG ATATTCAAAC	100
25	CACTTTCTCG TAATTTCCAA TGGAGTTGTA AAGTTTAATG AGACCTCGAT	150
	AATCATATTC TAGTCCACTG TAGC	174
	(2) INFORMATION FOR SEQ ID :889:	
30		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 327 base pairs	
	(B) TYPE: nucleic acid	••
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :889:	
40		
	ACACCACACT TAAGGAATGG GAGTTATATT TCACTTCCCT GAGGCCAGAA	50

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	TATATATATG TATGTATGTA TATGTGTGTG TGTGTCTATA TATATATATA	100
	TATAGACACA CACGCACATT ATACACACAT ATATATACAC ACACATATAT	150
5	ATATGTGTGT GTACAATATA TAAAAAATTA TATGGGAGAA AAGAAAGGCA	200
	AATCTCCCAT GGCAGAGAG TATCCCAAAA AATTTTTTTG TGTGTAACAA	250
10	AATATGTTGT GTGTATATAT ATATGCACAC ATATTTATGT GTATATATGT	300
10	ATATATAT CTGTATATAC AGGTATA	327
	(2) INFORMATION FOR SEQ ID :890:	
15	(i) SEQUENCE CHARACTERISTICS:	
1.5	(A) LENGTH: 181 base pairs	
•	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :890:	
25	TTTTTTCTT GTCTCCCG CAGCGCGCC CTCTCGCGGC GCTATCTCTC	50
	GCTCTCTCTC GCTCTCCGA GCTCTCGAGA TATAGCCGAG ACACGAGAGC	100
30	TCGCTCTCTC CCGCGCGAAG ATCTCACCCC CGCGCGCTCG CGCGATATAT	150
	ATCTCCTCGC GCGCGCCCG AGCGCGCCCC T	181
	(2) INFORMATION FOR SEQ ID :891:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 207 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

	(xi) SEQUENCE DESCRIPTION: SEQ ID :891:	
	CTCTTTAATA GCAAGCGAAT GGTAATTACA TGGTCGGATG AGGTCCTCAC	50
5	TCTCAGGGGA GGGAGGGG AGCAGAGGTG GACAGGGTGC AGTATAGGAT	100
	TTACACTGTT TGAAGCATCT AACGAAGGGC AACAGTTTTT GGCAACCCAA	150
	TTCACAGTTT TGTAATTTAC AAGAGATTTC TTTGAAAGGA AATAGGAAGG	200
10	CAAAGAA	207
	(2) INFORMATION FOR SEQ ID :892:	
: 15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 198 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :892:	
25	CTATCACTTC AGGGAAACAA ACAACTAACA GCCATCAATT CAGAGGGAAG	50
	TGATTTTACA GTAGAGTGAA CGAAACTTGG GAAGGAAAAC ATCCAAGAGG	100
30	CGTCTGTTTG ACGTGGGTAA CGTGGGGAAC GCATACTGTC TGGCAAGAAT	150
	TCTACTAGGA CCACGGGAAA CAAAGCAGAT TAAAACACTC TCTACTCT	198
	(2) INFORMATION FOR SEQ ID :893:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 96 base pairs	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :893:	
	CTTTAGAGAA TGCCTTGTGG AAAAAAAAAA AAATGGGCCC CAATACTTTT	5
5	TACTGCCCTT TATCAAAATT GTTGTGCATG GACCGGGCCA AATAAG	9
	(2) INFORMATION FOR SEQ ID :894:	÷
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 325 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
* .		
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :894:	
	AATTGTATAC CAACATATAA ATTAAAAGTG TTATGCAATG AGAAACAATA	50
20	ATGGAAACAG CATAATACTA CATACTATCG CGCGGGGTTG TCGGCGTGGT	100
	GGGCGTGCGT GTAGAGAGAG AGCAAGGGCG TGTGCGTGAG TGGGCGTAAA	150
25	GAGTGAGCGT GGGAGGGTGT GGTCGGTGGA GGGTGAGTG	200
	TGCGAGAGGG GCGAGTGTAT GTGTGATAAG TATAGCGCGC AAGAGGCGAG	25
30	GACAAAATAT ATATATATA AGATATAATA GATATGAGAG AACACTAAAC	30
30	AATAACCACT ACTCACATAG AATAT	32
	(2) INFORMATION FOR SEQ ID :895:	,
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 266 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :895:	
	ATAGTTGTAC ATTTTTATGG GGTGCATGTG ATATTTTGAT ATGTGCATAC	50
5	AATGTGTAGC AATCAAATCA GGGTAATTGG GATATTCATC ACCTCAAACA	100
	TTTATCATTT ATTTGTGTTG GAAACATTCA AACCTTTTCT TCTAGCTATT	150
10	TATCCATTGT TGGATACTTA TATCAATTCT ATATCTTAGC TGTTGTGAAT	200
10	AGAGCTGCAA TAAATGTAGG AGTGCAGATA TCTCTTTGAT ATACTGATTT	250
.·	TCTTTCTTTT GTTATA	266
15	(2) INFORMATION FOR SEQ ID :896:	
	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 197 base pairs	•
20	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Torobodi. Timeat	
		·
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :896:	
•		
•	AAGAAGAGTC TTCTGCACAA ACAAAACCAT AGTGTTGACA AATAGTCATG	50
20	GCCAATGGCA ATCTGATGGT CCAGCGGCCC TCGGATGACT CCTCTGCAAG	100
30	GAGCATCTTC AGGGTTCTAG GGAAGTCACA GGGGCAACAT ATTGGAAACT	150
	AGCAGGCCCA GAAGACCGCC CCGCCCCCCA TGCCCTGGCG CAGGGCC	197
35	(2) INFORMATION FOR SEQ ID :897:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 192 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :897:	
•	GATGGCTGGA GTAGATTAGG GCGTAGGTAG AAGTAGAGGT TAAGGAGGGT	50
5	GATGGTGGAC TATGATGGTG GGGATGATGA GCGCTATTGT TTTTTGTGAA	100
	TATTTTTCTT CCGACTAACT CGCGCCCCAC TCTCTTGCGA GCACAAACAC	150
10	ACGCGCGCT GTAAGCGGCG CGAGACACGC GCCCCTTCCC CT	192
	(2) INFORMATION FOR SEQ ID :898:	·
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 224 base pairs	
10	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :898:	
25	TGGATGTTTT CATTCGCAAA TCATGAGAAA CTTAAGTGGG TTTTATGCAC	50
	TTGATAGAGT TGGCAAAATT GAACTATGAA GTTAACTATT TAACTCAAGG	100
	AATGGGCGGC AAACCCATCC CCTCGATTGA TAAAGAAGGG GAACATTTTT	150
30	ACATTAGAAC TGACACTGAA AACATAGCTC TTTTTCAGTC CACCCTGGTT	200
	GCTCTAGTAG CCCACAGCCC AATC	224
	(2) INFORMATION FOR SEQ ID :899:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 362 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
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(xi) SEQUENCE DESCRIPTION: SEQ ID :899: GAGGTGATTT CTCAGAGTTT AGAGAATAGG ATGGGGAAAA TTATATTTAG 50 TGAGTTATAA CCAGAATTAC ATAAGACAGA TATGGAAATT TTATAAACAA 100 AATGCAAAAT ATTCTAATGT TTCAATGTTC TACATGAACA TATAGGGAAG 150 CATAGACAAT AGCCAAAAAT ATGTTCTGCA TTCATATACT AGTTCAAGTC 200 10 CGAGTCTGGC TACTTTCTAG GTAGTGTGCT TTTTGTCAAA TTATAAAGAT 250 ATATTCCCTT TGTTTTTTGA AAACGAGTGA GATGCTTAAA TAGAGTACAA 300 TTATCTCATT CAAAATGTAT GTTGTTTCCT CTCGAGAATT GTGAAGGTTC 350 15 362 TGAGATTTGA TT (2) INFORMATION FOR SEQ ID :900: 20 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 310 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID :900: 30 GTATGTAGCC CAGTGGGTGT CTTCCCACAG GGTAGGTACT CAGTTTGCTC 50 TGGAGGGTGA CTCATACCTA AACAAGTGCA CATCTCCTTT CTCAGTAAAG 100 150 CCAAAGCAGG TTTCTACATT TGGAACAAAA GAGATCCTGA CCAGAGAGCT 35 ATCACTGGTG GTCCACTTGG GCCCTCCTTG ATGGGTGTGT TCACTTAGAA 200 AACCAAATTA CAGATCTGAA GGCTGCTGGG TAGGGACAGG ATTAGAACAA 250

AGGGAATGAG ATTGAATGTT ATTTAAGGGA TATTTCTGTC AAGTTTTGGT

•	TTCTCGATGA	310
	(2) INFORMATION FOR SEQ ID :901:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 185 base pairs	
	(B) TYPE: nucleic acid	÷
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :901:	
15	TTCCCCCATG AGACCGTTAG TCTCTCTTTG CCTGGCTGAC TACCTGCATA	50
	CAGTAGGCAC TCACTGCTGG AGTGAGGCAC TGACTCCTCC AAAGATTGCA	100
	GGGGGCGAG GAGGGAACCA CGAAGGCCTG GGAGGGGGCA TCTTTGGCCC	150
20	CCACTAACCA TCTCCCTATT TCTGCATCCT GGTGA	185
	(2) INFORMATION FOR SEQ ID :902:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 381 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		٠
·		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :902:	
35	ACAAGCTGCA AGATCCTTCA CTTGAGGCTT TCAGCCTTAT TCTCCTCCTG	50
	TCAAACAACT AAACTACTCC GATGTTTGAT GAAAATTAAA CTGCTACTCA	100
40	GGATACTGCA ATTACAAGGA GAGGGAATGA TCAGCCCAGG GAGGCTATTA	150
40		200

	AAGTGCAGGG AGGTGGAGCT TATTTGCATT TGAACTCCTG	TAAAGAGTAA	250
	GAATATGGAA AGGATGAAGC CTCATTCATT CGGGCATATT	AAAAAGAAAT	300
5	TGCCTTCAGA AACACTTTGC CTTTTAATAT GTGTAGCTAC	AGTAAGTACC	350
	AATGGGCTAA CTAATTGAAG CTAACATTTT A		381
	(2) INFORMATION FOR SEQ ID :903:	• •	
10			
	(i) SEQUENCE CHARACTERISTICS:		
•	(A) LENGTH: 240 base pairs		
	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		
15	(D) TOPOLOGY: linear		
. 10			
•			
			•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :903	•	
0.0	(X1) SEQUENCE DESCRIPTION: SEQ ID .903	•	
20	CATCAAGGGT TTTTCCTGCT GCAATTCTTG TCAAAAACTG	ACATATGTAT	50
	ATCGTTCTCA ACTGGCAAGC TGTTAGACTG GATAGTCCAT	GAATAATAGC	100
25	CTCTGCGCTG TTGCGGGTCC TGCGGAAGTC CTCGGAGCGG	CCGTCGCGGA	150
	AAGCTCGGCA AAGAGAGAGG CAGAGGAAAT CGAGCATCCA	GCCGGCAGCC	200
	ACTITITIT TATCGGCACC AGGCCGCGTC CTCCTCCTCC	• • • • .	240
30	•		
	(2) INFORMATION FOR SEQ ID :904:		
•			
	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 280 base pairs		
35	(B) TYPE: nucleic acid		•
	(C) STRANDEDNESS: double	•	
	(D) TOPOLOGY: linear		

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(xi) SEQUENCE DESCRIPTION: SEQ ID :904:

	CCCTGGGCAG GCTGCTGGTG GTCTACCCTC GGACCCAGAG GTTCTTTGAG	50
	TCCTTTTGGG GATCTGTCCA CTCCTGATGC TGTTATGGGC AACCCTAAGG	100
5	TGAAGGCCTC ATGGCAAGAA AGTGCTCGGT GGCCTTTAGT GATGGCCTGG	150
	CTCACCTGGA CAACCTCGAA GGGCACCTTT GCCACACTGA GTGAGCTGCA	200
10	CTGTGACAAG CTGCACGTGG ATCCTGAGAA CTTCAGGCTC CTGGGCAACG	250
10	TGCTGGTCTG TGTGCTGGCC CATCACTTTG	280
	(2) INFORMATION FOR SEQ ID :905:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 225 base pairs	
	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :905:	
25	GTTCTAGTGG TAACTGCTGC TTCTGGAAAA TATTTAGAGA AACCAACGGT	50
	AAAAAAAAA ATAATAATTA ATACCGTTGG TTTCTACATA CACTCTCAAT	100
20	ATTTGCACGA GTAAAGCGTA GCAAGTTTAA CACAACTTAT GTAAACTTGG	150
30	AAAATTTTCC GAAATTTTAT TGACTTTTCT CGGTCTCTCC TATCTTTATA	200
	TACACATCTC TCATGCACAC ACGCG	22
35	(2) INFORMATION FOR SEQ ID :906:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 161 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

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458

·	(xi) SEQUENCE DESCRIPTION: SEQ ID :906:	
	GGTGCTGACA TCTTCAAGAG CATCTGTCAC TGAATATTGC CGATCTCGCA	50
5	ACCGGTTCCA GTTAGACAGA ACATTGTGAT ATTCAAACAC TTTCTCGTAA	100
	TTTCCAATGG AGTTGTAAAG TTTAATGAGA CCTCGATAAT CATATTCTAG	150
10	TCCACTGTAG C	161
•	(2) INFORMATION FOR SEQ ID :907:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 204 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
. •	(xi) SEQUENCE DESCRIPTION: SEQ ID :907:	
25	AGAGATATAT GCAATCTGGT AGTCCATTAA ATGAGAGTTA CACTTAAAAT	50
	ATTTTAGTTC TTTTAAAGAA AAAGTCTCCA TGTGCTATTT GGGAAAACCT	100
·	TCATTGCCTA AAGACCCACT TGCATAATTA AGGCAGATGA TGATGATCTT	150
30	TATATATGCG CACACACA CACACACGAC ACGACGACAC ACACACAC	200

(2) INFORMATION FOR SEQ ID :908:

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TCTA

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear 40

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	459	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :908:	
	AGTTTCTGCA TTTGGTCTGT GTGACTCTAT GGAGCCCAGG ACTTACAGAA	50
5	AAAGGTGTAA CTGGCTCTTA GGACTTTAAG CCACATTATG GTAGTAGACC	100
	TGCCGTTTTA TTTGACATGG TGAAATAAAC TACCACTCCT TTGTGGTACC	150
10	ATATGGGCAG GACAGAGCTC TTCAACCCTG GCTAACAAGC CTGAAGAAGA	200
10	CCCTGTGAGG CCGCAGCAGC CATGGGAACT TCCCAAAGGA CAGAAATCCA	250
•	CATTGGAACG TAGCATCCAG ATAGGTGACA GAAATTCCTT CCACCATATC	300
15	CAAATGTGTG TGTTTT	316
	(2) INFORMATION FOR SEQ ID :909:	
•	// A CROUDUOD AVIND CHIRD CONTOC	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 307 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID: 909:	
30	CTAGTAACAT AGAAAATAAA CTTCAGTGGG AATCTCTGCT TCCCGCGTGA	50
·	GGTGTTTAAT TCTTGGCATT TTTGTATTTT AAAGATGTAG CAACTTGTTT	100
	CAAGTTAGAG GAGATGGCAG GGTCAAAATT TTAGAAACTG GATCCCACCA	150
35	CCACTGTGTT ACTTCCTAAA CCTGCATACA AATGTTCTGC CAACATGTAA	200
·	TGTGCCAATA GAATTATACG GTGTGAACTG CATATCTCAG TATCTCCACG	250
40	GGAAAAACT GTGGTTGGGG CATGGAGGGG GGAAAGGGAA ACTTTTTTAA	300

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(2) INFORMATION	FOR	SEQ	ID	:910:
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	,	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 172 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•.
*		•
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :910:	
		50
•	TTTTTTTTT TTTCCAGGCA CCTAACGATT TGTTTTGCTC AATCAAACGC	50
1 5	AGACAGGCGT CTCCGAAGTA CCACCACTGG GATATCCTCG GACCAGCGCT	100
15	AGACAGGCGI CICCGAAGIA CCACCACIGO GAIAITECIGO GAICHGCGC	
	TAAACCGAAT CCCCACAATC TCAAACTCAA CCAGGCCAAA GGGAACACAG	150
•		
	TGACACAACA ACAGGGTTCC AA	172
20		
	(2) INFORMATION FOR SEQ ID :911:	•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 255 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Torobodi. Timedi	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :911:	
	GCATAGAGAG ATATATACAC AGAGAGGACA TACATATATA TATATAGAGA	50
•		
35	CACAGAGACA GACATATAGA GATATATATA TACACAGCAT AGAGATACAG	100
		150
	AGAGATAGAG AGAGATACAC ATACACACT TCATCAACGA GAGAGAAGAG	150
·	AGGAAAGAGA GAGAGAGCGA GCACAGACAG AGATAGAGCA CACAGAGAGA	200
	(1881 W. 1811 A. 1811	

TCGCGCAGAT CTATACAGAG GGATATTCAC CACATTGTAT ATGGAAAGCG

	CATCT	255
	(2) INFORMATION FOR SEQ ID :912:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 196 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
10		
		·
	(xi) SEQUENCE DESCRIPTION: SEQ ID :912:	* 1
15	CAAGCGAATG GTAATTACAT GGTCGGATGA GGTCCTCACT CTCAGGGGAG	50
٠	GGAGGAGGGA GCAGAGGTGG ACAGGGCGCA GTATAGGATT TACACTGTTT	100
20	GAAGCATCTA ACGAAGGGCA ACAGTTTTTG GCAACCCAAT TCACAGTTTT	150
	GCAATTTACA AGAGATTTCT TTGAAAGAAA ATAGGAAGGC AAAGAA	196
	(2) INFORMATION FOR SEQ ID :913:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 203 base pairs	
	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
30		
,		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :913:	
35	ACTATCACTT AAGGGAAACA AACAACTAAC AGCCATCAAT CCAGAGGAAA	50
	GCGATTTTAC AGTAGAGTGA ACGAAACTNG AGAAGGAAAA CATCCAAGAG	100
40	GCATCTGTTT GACGCGAGCA ACGCAAGGAA CACATACCGT CTGGCAAGAA	150
40	TCCCACTAGG GCCACGAGAA ACAAAGCAAA TTAAAACATT ATCCACTACA	200

	CGA	203
	(2) INFORMATION FOR SEQ ID :914:	· .
5	(i) SEQUENCE CHARACTERISTICS:	
J	(A) LENGTH: 262 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	·
	(D) TOPOLOGY: linear	
10		
:	(xi) SEQUENCE DESCRIPTION: SEQ ID :914:	
15	CTGCCGAGCC ACCATGCTTG CCTGAAGCTT CGGCCGCCC ACCCGGGCAA	50
	GGGTCCTCTT TTCCTGGCAG CTGCTGTGGG TGGGGCCCAG ACACCAGCCT	100
20	AGCCTGGCTC TGCCCCGCAG AACGGTCTGT GTGCTGTTTG AAAATAAATC	150
20	TTAGTGTTCA AAACAAAATG AAACAAAAAA AAAATGATAA AAAAATCGGA	200
	TTTCCGGTTA ACACTGTGAC TTCAATTGAA ACACCTTTTT GTAGTATCTG	250
25	GAGGTGGACA TT	262
÷	(2) INFORMATION FOR SEQ ID :915:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 191 base pairs	
	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
•		
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :915:	
40	TGGGTTCTAA TGATGTGCTT GAAGAGGAAG ATTTTGATCG CACCACTGAT	50
	ACACGGAGTC TGTATTTTGC ATCCTAGAAT GATTAACCAG AAACAAAGAA	100

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	AGGAAAAAGG TAAAATCAAT AATAAGATCA GCAGCTCTGG GACACAGAAT	150
	AAAGAATGAA ATAATTTGAA AAAAAAGGCA GGGCAGGCAA A	191
5	(2) INFORMATION FOR SEQ ID :916:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 252 base pairs	•
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
•		
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :916:	
	AGACTTGGGG GTTCCTGGTG TGTGAGGGGT CCTGGGATAG CTAGGGGTTT	50
20	TCCAGGAGTT GTCCTTTGTT GTTTGTCGTG AAGAATTATA CTTTGTGTGT	100
20	GTGTGGGTTG TCCCATGTGT ATGCGTGTAG TGTGACAGTA TATGACCCCC	150
	AGTGTGTGCA TATGTTTGTG TGGTTGTCTC TGAGTGATAT CCACCTCTCT	200
25	CTCCCCCTCT GTCTCTCC AGAGATATGT GTGGCGTCAC TGTACTCTTG	250
	TG	252
30	(2) INFORMATION FOR SEQ ID :917:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 247 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
i	(xi) SEQUENCE DESCRIPTION: SEQ ID :917:	
40	(NZ) DEFENSE DEDOCTOR	

TAGACAGAGT GACAGTGAGA GAAAAAGAGA GGAAGGAAAA GGGAAAAGGA

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	GTAGGGAAGG ATGAGGGAGA TAGGAAAGCA CCTAC GAG GCAGAGAGTT	100
	TCCTGAAGGT CATGCGATCC TTTACCCTCA GAAACTTTCA GGCTGAAATC	150
5	ACCATCTCCG TTATCCCAAC AAACGCACTC TCCTACCTCT ACAAGCACTT	200
	CAAGTAAAGC AGAAATCACA CCAATACTGA CGNGCTTCAA GCGCAAC	247
	(2) INFORMATION FOR SEQ ID :918:	
10		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 191 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :918:	
20		
	ATTTGGATTC AATTGCCTGT TGCACTTTTA CATTAAGTGT TGCTTAAATA	50
	AACAAAATA GAGCATAAAT TCAATATTCT ACTGTCTAAA CATTTTAAAG	100
25	CAATGGTTAT GCCATCATAA ACAAGTAAAA TGCACCTAAT TCGAGTCTTT	150
	TGACACCTCT TGTTTTAAGT TTCCTGTATG ATAAAGTTCT T	191
	(2) INFORMATION FOR SEQ ID :919:	
30		
,	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 205 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :919:	
40		

	ACAACCTCCT CATTTCAGA AGCGAACACA CCCCCGCCCC AAGATAGACG	100
	ACAGAGACCG GACTAAGATT TAACCCAGGA ACTTTTCGCT TGGGCACCTT	150
5	CGAACAACAC ACAACCCGCA AAACCATACA CGCTCCCTTG CCCGAGGCCC	200
	AACCC	205
	(2) INFORMATION FOR SEQ ID :920:	
10		•
	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 323 base pairs	
	(B) TYPE: nucleic acid	
. ,	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
		٠
	(xi) SEQUENCE DESCRIPTION: SEQ ID :920:	
20		
	GACAAAATTG GGACTCTAAG TATTGCGCTT TTTTTTCCTC TCCAACGACT	50
	CGTTCCCTTT CAACAAATAG CACTTCAGTC CACTGTGTAC AGAAGTAATA	100
25	CATCTCCTAT CGTTAGTTGA ATAAATTCAC ACACCGCGTT TAAGAGATGA	150
· .	AACCACGACT TCGTCAAGCC ACATTCGATT GCCATAAGAT TCCAAAGAAT	200
30	TCTATCCTCT TAAAGCGAAC CACATGTAAC CCGAAGGTCC CCACCTATCA	250
•	AGGTTAGAAC TGATATTCAA ATTATAGACT CATTCCACTA AGCAAGTAAG	300
	CTCTAAGCTA CAGGTTGATC ATA	323
35	(2) INFORMATION FOR SEQ ID :921:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 230 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

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(xi	SEQUENCE	DESCRIPTION:	SEQ	ID	:921:

	AACATTGACG ACGCTAAGGA TGCCATGATG CCATGAATGG GAAGTCTGCA	50
5	GATGGACGGC AGATCCGAGT AGACCAGGCA GGCAAGTCGT CAGACAACCG	100
•	ATCCCGTGGG TACCGTGGCG ACTCTGCTGG GGGTCGGGGC TTCTTCCGTG	150
10	GGGACCGAGG CCACGGCCGT GGACTCTCTA GAGGCGGCGG GGATCAAAAC	200
	TATAGAAACA ACAAGTTAGA GTACAGACGT	230
15	(2) INFORMATION FOR SEQ ID :922:	
13	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 239 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :922:	
	TATTTTTCCT GATGTTCTCC CTTCCTCCAG TCCCCGACCT CCCACAGGCC	50
	CCAGTGTGTG TTGTTCCCGT TCCTCGTGTC CGTGAGTTCT CATTGTTCAG	100
30	TGCCCATTCT GAGGGAAAAC ATGCCAGTGC TTTCGCGTTC TTCCTCGCTC	150
•	TCACCCACCT CTCAGCTTAT CGCGTCGCGC GCGCAGTATA TTCGTCTCTC	200
35	TCTCCAGTCT CTCTCGCGAC ACACATCTCT CTTTTGTAA	239
33	(2) INFORMATION FOR SEQ ID :923:	
	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 178 base pairs(B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID :923:

	(AZ) BZgoznob BZbonii zach bag za salas	
5	GTCAGTTCAG TTGTGAACAA AGCCCTTTGT GTACGTTTTT AAATTTTAGT	50
	TCACACGATA ACAATGCTTT GCAAGTAGGT GTAATTATTT TACTCCCATT	100
10	TTATGGATGA GAAAACAACA GAGAGGTTGA TTGGCCCCAC CTTCAAATCC	150
10 ,	TGAAACCCGT CCACTCAATA AATTTTTG	178
	(2) INFORMATION FOR SEQ ID :924:	٠.
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
		. •
	(xi) SEQUENCE DESCRIPTION: SEQ ID :924:	
25	CAGCTGGTCC CCCACTAAAA GAAGGGGCAG ACCACCACTA GCCAAAAGAG	50
	ATAGCAAGAC TAACATCTGG AAGAAGCGAG AGGAACGCCC ACTGATTCCC	100
30	AAAAAAAAC TCCAATGGGG ATTGTGTGTC TGCTGTCTCG TGCTGTTTAT	150
	TCTTGCTTCT TGTTGTAAAT TGCAGTACGA ACTTAAGAAA ATGAGACTGA	200
	GCAATCTCAT GGTTCTTGGA CATGTCTCAA GCAGAGTAAA TGGTAATTCA	250
35	GTAATCAGAG AGAAAGATAC CAAGGAATGC TTTTTCTGGC CTATTCATTT	300
	ATTTTTGGGG GATGAATTTA CAGTA	325
	(2) INFORMATION FOR SEQ ID :925:	•

40

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 261 base pairs

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :925:	• .
10	ATGGCTATGA CCTGGGACAT GGAAACAGTG ACCTCCGCGT TCTGGTCCCG	50
10	AGATCCTCGC ATCAGCGTCA TCGTGTGCAC CGGCTTGGGG GGCTGGAGTT	100
	CCGGTTTTCT TTGTTTTTC TCTTTATTCG TCCTTTCTCA AAGATGGGAT	150
15	ACTGATCAGA ATCGTTCTGT ATATGCTTGG GACTGGATGG AAAGACTTTG	200
	AAGCAGCTGT GGGGGGGGG AGGACACCGA CAACCAAACA GACGTGTTGG	250
20	TTCCAGTCCT G	261
	(2) INFORMATION FOR SEQ ID :926:	•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 173 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :926:	
	GTCAGCCTGG GCAATCACAA CGACAACAAA AGGTACAGTC TCAAGAGTCC	50
35	AACTGGGTTC AAATCCTGGC TCTGTCACAT ACTAGCTGTG TGACCTTGGC	100
·	CAAGTTTCTT AACCTCTCTG TGTGTATAGT CCTTATCTGA AAATGGGGAT	15
40	AACCAACCAA GAGAGCTGAG AGA	17
40	(2) INFORMATION FOR SEQ ID :927:	*

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 223 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :927:	•
10	AACACTCAGA CCGGACGGGA CGAGGGATTC CCCTGCCTTC GCTTCCCTCC	50
	CTCGCTTGCT TTGTAGTTTT CCCGCACCAG CCCGCTGCCC TGCGCCATCC	100
15	TAGGGCCTCG AAGCCCGGGG AATCTGTCCC ATCCTGTAAC GGGCCGCCCC	150
	CTTNGATTTT TCTGCCCGTG CCACCGGAGG TTGCTGCGAC GCGCACCGAC	200
20	TCAGATCATT ACTACTGAAC TCG	223
	(2) INFORMATION FOR SEQ ID :928:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 212 base pairs	
25	(B) TYPE: nucleic acid	
23	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(b) Totoboot. Timent	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :928:	
	GTTATAATTA TTTACATGCT GCAACACGTC ACAACATAAA TTTACCAAAT	50
35	ATTTCATGGT GGGATGCTGT AGGTTTCAGA TAATAGTTTT AAGATAAAAA	100
	CCACAGATTA AGTGAAGACA CCCACAACTT TAATGACTCT ACGACTCTCG	150
40	GTTGCTAAAT GCTAGAAGTC AAAAGGCAGT GTTTTTTCAG TCCTACCTGT	200
	CATAACTTGC AT	212

(2) INFORMATION	FOR	SEQ	ID	:929:
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	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 233 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
•		
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :929:	
	TTAACATAAT ATTTTGAATA TATAGGGCTC ATAAGATATA TTATTAAATT	50
:		
15	ATAAACAAAA TAATCAGGAA CTTAGTGTGG TGCCTAGTTT GATATATGAT	100
	TACTTTTTGA AATGCACTAA ATTCCACAAA TAATGAAAGT ATTCTTTGTG	150
20	TATAATGTTA TGTTTGGTTA TTATGTATGG TCTTCGTATC CAAAGGTATG	200
20	ACATAACTTG AGTTTGTTTG CTTGGTATTT ATT	23:
	ACATAACTIG AGTITGITIG CITGGTATTI ATT	. 23.
	(2) INFORMATION FOR SEQ ID :930:	
	(2) Intomitted for alg 15 .750.	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 235 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :930:	
35	AGTCTGTAAC GATACACCCA TAGATGTGAA TTATGTATAT TCGAGAAGGA	5
•	GATCAGATGG CATCCAGAAG ATAGTTTAGA TTTCAGCACA TTCATGGTTC	10
40	AGATGCAAAA TCAGATCATC AAATAGATCC AGCAATTCAC AATCATCATA	15
40	GCCATATCGC GTCACGTCCG CCGCACAAAG ATCCGCACCA ATTATCTATC	. 20
	GULBIBIUGE GIEBEGIEUG EUGEBERANNO BILLGEBEUR BIIRTUTATU	70

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	TCCCACCCC CCCAGGCATT CAGCACCCGC AAAAG	23
	(2) INFORMATION FOR SEQ ID :931:	
, 5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 221 base pairs	•
	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :931:	
15	CTATCTAGAA TTACTTATTT CACTTGAAAT GTATGGTTTC AGGAAAATTT	5(
	TCAATTTAAC TTGAAGGGAT TATCTCTTAT TTTGCTTGGA ATAATGGCAT	100
20	CTCAGAAACA TGGGTTTACC TGTGATTTTT TTGTTTGGGT GAATGCTTAA	150
	AAACAAAAA AAAATTTACA TATGCATTTT ATGGATACAC ACACACAC	20
	ACACACAC ACAAAAAACA C	22:
25	(2) INFORMATION FOR SEQ ID :932:	
*	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 333 base pairs	
	(B) TYPE: nucleic acid	
-30	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :932:	
	TGCTCTATTG CTATCTCCTG ATATAGGTTA TATATATAT ATGTCTTGAG	5
40	CGTCATGTCT TGTGCTACTA CACCGTGTTA ATCCCAGCTA CTCAGGAGGC	100
	TGGAGGATCG CTTGAGCCCA GGAGTTCTGG GCTGTAGTGC GCTATGCCGA	15

	TCGGGTGTCC GCACTAAGTT CGGCATCAAT ATGGTGACCT CCCGGGAGCG	200
	GGGGACCACC AGGTCTGCCT AAGGAGGGGG TGAACCGGCC CAGGTCGGAA	250
5	ACGGAGCAGG TCAAAACTCC CGTGCTGATC ATGTAGTGGG ATCGCAGCCT	300
	GTGAATTAGC CACTGCACTC CAGCCCTGAG CAA	333
	(2) INFORMATION FOR SEQ ID :933:	
10		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 281 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :933:	
20		
	AGATTTATGG CTGCTTTCAC TTGGCTCCAT GTTCTGCTGA TAATTAAACA	. 50
•	GTTTGTGTGT CCTGTCTTTC CTCAAAGGAA CTTGTCAACC TTTGGAATTT	100
25	TGTTCATCTC AGAGGGACGT CTTAAGTACT CAGCTTTCTG AATGTTTAAG	150
	AAAAAAATAA TACTTTTCAG AATTACCTAC CTCTTTCTCA TTTTTAGCCT	200
	GGGATCAATT ATTCCCTTTC ACACTTTTTT ACATCCTAAG TAGAAATAAA	250
30		
	ACTCTTTATT CTATTTTTT TCAGTTATTG G	281
	(2) INFORMATION FOR SEQ ID :934:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 266 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

	(xi) SEQUENCE DESCRIPTION: SEQ ID :934:	· · .
	AATCTTGTAT TATGTTAATA TTAAAATCTA ATAATAAGAT ACTGTAGAAG	50
5	TATTTTACAT TTTTGGGGTA TAGGCACAAA TATATACATT TAAATATTAG	100
	TAATAGAATT GAACAATTAA CTATAAAATA TTATATCATA ATAAACTGTT	150
10	GTTTTATCCC AAGGGTAGAG GGACTCTAAG TAAAACTGTA ACAGAATCAA	200
10	AAGGTTACTG ATAGTTAGAA TGGGTTGAGA ACTATTTTAA CTTGGGAACT	250
	TTAAATAAGT AAATCT	266
15	(2) INFORMATION FOR SEQ ID :935:	·
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 178 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :935:	
	GGAAAACAAA TGTAAGGAGG GAATTCAAAT ACCTAGTTAA TCTATTAACT	50
30	ACTARTRACT CATTRACTAR ATTRATACTA TTRACTGATC TGTGTGTTCC	100
30	ATGCAAATAA CAGAATGATT TCCACTGAAT AGTCATGATG GTTTAAAATA	150
	TTACTCTAAC ACCAATAACA ACACGTAA	178
35	(2) INFORMATION FOR SEQ ID :936:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 224 base pairs	
40	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID :936:

ACTCAGCTCC GTGCGACCCA CATGGCCCCA GGCGGGGGGA CACCAGAGGC 50 . 5 TCCTCCATGA GCAGCAGGAG TGAGCGGAGG AATGTGCCCC ACAGCAACTT 100 TCCCAGCCAA TGCCACGATG GAGATGACAA CCCCAGATCT GGGGANACAG 150 ANACCACTCA GAACGGCACA GGGTAACTGG CCCCAAACGC TGAAAGTTAG 200 10 224 ACTTCACCCG AATTACATTT ACCA (2) INFORMATION FOR SEQ ID :937: 15 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 270 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 20 (xi) SEQUENCE DESCRIPTION: SEQ ID :937: 25 50 ATTTTTTTC CCAAGAATCC CCAACTCAAT AAAACCGTGA AACAATTGCT GGGGATGGGT AGAGAAAACC CATTTATAGT ACTTTTCTGC CTTCTTGTGG 100 150 30 AAAACAAACA CAAAAACATT TCAAAAGAGA AAGGAAAAAA CTTTTTCCAA 200 CCAAAACTCC TAAAAAACCC AAAAACAGAA CAACCAATTA AACCCGACCC 250 35 270 GACACAACTA CCAATGACTG

(2) INFORMATION FOR SEQ ID :938:

40 (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 215 base pairs
- (B) TYPE: nucleic acid

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(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :938:	
	AGCCTTCTCC CTATTCGATA AAGATGGCGA TGGCACCATC ACAACAAAGG	. 5
10	AACTTGGAAC TGTCATGAGG TCACTGGGTC AGAACCCAAC AGAAGCTGAA	10
	TTGCAGGATA TGATCAATGA AGTGAATGCT GACGACAATG GCACCATTGA	15
15	CTTCCACAAA TCTTCAACTA TGATGCCTAG AAAAAAGAAA GATACAGATA	20
	CTAGAACTAA AGTCA	21
	(2) INFORMATION FOR SEQ ID :939:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 303 base pairs (B) TYPE: nucleic acid	٠
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :939:	
30	TGTCGTCCTT AATATTTCTN AGCCTTTTGT CATAGAGGTG GTCGGTTGGA	5
	CCTCAAAGCC TCCATCTAAT TTTTTTTGTC TATGTTTCTA TATCTCTCTC	10
35	TTTTACGCTT CTTTCCCGGA CCGTCCCCTC CCTCTACAAT TATATTTACT	15
	ACCTTCATGA TTGCTTTTTA TTATTTCTTT CACTCATCAT TATTGTTCAT	20
·	TTTTTAATTA ACAATTTTTT TCATTATTCT TTTTCTTAAT TTGTAACCCG	25
40	TTTCTAATTT TCTCAATTAT TGCGCTTTCT CAACCCCCCT CCTTCCTCAT	30
·	TAC	30

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(2)	INFORMATION	FOR	SEQ	ΙD	:940:

	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 330 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	•
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :940:	
	ACACTATTTT CAAAAATCCA AATAAAAGTG CAGTTTCAGA CTTTTTAAAA	50
		100
15	AAACACCGTT GACCTGTCTT AGTTGTACAT TCAGAAAATG TAGCCTCGAG	100
	CGTTTGCATG CAACACTGCA TATTTTTTCT AATCAGATTA ATATGAGTTT	150
٠		200
20	TAATGTTTAG CATGAACTAC AGCTAAGGAT AAAAATTTTA AAGTAGCTTT	200
20	CATAGTCTAG ATTCCTGGTT TCATAATGCT TTATGTAGTA CATTTCAGTT	250
,	TGCTTTGCTT TGTGGAGACT TGCGCGTATT TTCTTTTGCT TGTTTGTTTA	300
25	TCGCCAGGCA GCGCTGTTCG AACTGTGAGA	330
	(2) INFORMATION FOR SEQ ID :941:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 107 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :941:	
٠.		
	TTTATTTCAG ATAATTTTAT GTAAACAAAT TAAGAGTTAT TCATTCAAAT	. 5
40		

TTTTGGCAGT GTTAATCTGT AAATGATGAC TTGATGTACA GAAAATGCAT

	TTTTGCT	107
	(2) INFORMATION FOR SEQ ID :942:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 126 base pairs	
	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
10		i
	(xi) SEQUENCE DESCRIPTION: SEQ ID :942:	
	(AI) Digital District Digital Control	
15	CCACAGCATA CACACCTTGG AAACCAAGAA GACTCTTTGT GTGTGTATGT	50
	GTGCGAGACT GACGCGTCTC TACGCGCTCT ATGGGGGGAG ATTTGGTTAT	100
	TTCGGCGTTA CACCTCCGGT GTTCTC	126
20	(2) INFORMATION FOR SEQ ID :943:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 155 base pairs	•
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :943:	
	ACTGAACAGC CGCTGGTTCC AGAACAGGCA CAGAAGGCTC CAGCGCTAGA	50
35	AACAACTGGC ACAGGAATGG TAACAATAGT CTGGCTCAGC CACAACAGGA	100
	GGCTCCGGGA CAGTCACAAC CGAGAGCTTC CAGGACAGTT ACAGTCTGTA	150
	AGCTC	155
40		
	(A) THRODHARTON DOD CEO TO .DAA.	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 287 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :944:	
10		50
	CGTGAGGAGC AGGTACCATT TTTAGTAGTC ACACAATTCC ACCTCCTGTT	30
	TTTACTACTG GCAACTTCTA CTTGAGAATA ATGTTCTGAA AATGGAGGTG	100
:		
15	GGGGGGGTT TGGAAGCAAA CACATTTGGG GTTTTTAACC AATTGTTAGG	150
	TTCTTTTTAT TTAGGGTTGT GCAGGGAACT GTTGGGAGGT TTCTTTAGGT	200
		256
20	GGGATGGGGG GACTGGGTGT TGGTTTTTGG GGGGTTTTTG GGACGGGTTT	250
20	TATTTTGTCC CTTAACTTGG TTTGTTGGGC AGGTGGG	281
	(2) INFORMATION FOR SEQ ID :945:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 149 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
. 20	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :945:	
35	ATCATTGATC AATGATATGG TTTGGATTAC TGCCCCGCCC AAATCTCTTG	5
•	TCCAATTATA ATCCCCAGCA TTGGAGGAGG GGCCCGGTGG GAGGTGATTG	10
	GATCATGGGC ATGGACTTCC CCCTTGCTGT TTTCGTGATA ATGAATTCT	14
40	GRICHISGGO RISSREITO CCCITACIOI IIIOGIGRIA RISRRIIGI	
	(2) INFORMATION FOR SEQ ID :946:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 261 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

	_	
4	•	•

5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :946:	
10	TTTAAACTGC AAATAGTCGT TACAAAAAGT TTTNNNNNTT CTTTTAAATA	50
	AATTTCACAC AAAGAAAGAG AAATAGAAAG CGACGGTAGT GACCAGCAAG	100
15	AGGAATAATA ATTACATTCA TCTTAATGTG TGTGTGCCAG TTCTGTTTAC	150
	ATTAACATTG GAAAACTCCA GACCTGGACA CCAGAACCTC AAATCTGTGA	200
20	GTGGAATGTC TTGAGATGGG CACGCTGGAA GTCAAAGGGT TTCTCTTTTT	250
20	TTTTTTCCC C	261
	(2) INFORMATION FOR SEQ ID :947:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 264 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
30		
		,
	(xi) SEQUENCE DESCRIPTION: SEQ ID :947:	
35	CTTTAGGAAC TGTCAGCATG TTGTTGTTGA AGTGTGGAGT TGTAACTCTG	50
•	CGTGGACTAT GGACAGTCAA CAATATGTAC TTAAAAGTTG CACTATTGCA	100
40	AAACGGGTGT ATTATCCAGG TACTCGTACA CTATTTTTTT GTACTGCTGG	150
	TCCTGTACCA GAAACATTTT CTTTTATTGT TACTTGCTTT TTACACTTTG	200

	TTTAGCCACT TAAAATCTGC TTATGGCACA ATTTGCCTCA AAATCCATTC	250
	CAAGTTGTAT ATTT	264
5	(2) INFORMATION FOR SEQ ID :948:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 149 base pairs	
. :	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
•		
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :948:	
	CCTCGACTTA CCACGGTGA TCCCAGAATG GACTATCAGC GGTGTTTTGA	50
	GCCAGGTTGA TTGAGCACTG GGCTCCAACT TATTGTTAAT GAGAAACGGC	100
20	CCAACTTGGA CCATGACTTT CCCATTTGCA GGTCTTAGAA TAATTTTTT	149
	(2) INFORMATION FOR SEQ ID :949:	•
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 242 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
·	(xi) SEQUENCE DESCRIPTION: SEQ ID :949:	•
35	CGCTCAGGGT GGAAGTGGCC GGGCGCGTCG AATGTGCCGA GCTGGTGCGA	50
	GTGGGCGAGC AGAGCGCCTT GAGGGTTGAG CATCTTCTGG ATCCAGCAGA	100
40	GGCCTCCCAG GAGGGGAGCC AGGTGGCTGA AGGCAAGCAC TTTNNNNAGG	150
40	TTCTAGTCCC CTTTTTAGAT CCTAGGGGAC TGGAGATTTG GCACCTTCCC	200

•	CCAAGGCTTG GCCTCGTGCC CTATAGGGTG CCCCCCTCTC TT	242
	(2) INFORMATION FOR SEQ ID :950:	
5	(i) SEQUENCE CHARACTERISTICS:	
J	(A) LENGTH: 153 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
10		
*	(xi) SEQUENCE DESCRIPTION: SEQ ID :950:	
•		
15	ACTCTGCCTG CACTATAAAA TGAACCAAGG AGGATCCAGT TTGCTGTCTG	50
	CACTGACAGA TTTACAGACA GGAAAACAAA GCCTTACTTA CCAGGAATCC	100
		.*
	AAAGTTTATA CATGAAAATT TAAAAAGGGA GTCTATGCAA AGCGGAGTTC	150
20		
	AGG	153
	(2) INFORMATION FOR SEQ ID :951:	
25	/:\ croupice cuapacteries.	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 128 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(0) 00000000000000000000000000000000000	•
,		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :951:	
35	TGCGGGAGTC TCACTGGGGG GGGGACACCT GTGCAAACGC GTAACGCAGG	50
	TTGTTCCTAA GGCGAGCTCA GGGAGGATAC AGAAAACTCT CCTGTGGTGC	100
	TATGAAATGT GGCGTAAAAA GCATTCTG	128
40		
	(2) INFORMATION FOR SEQ ID :952:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 213 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
		•
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :952:	-
10		
	GTTGGAAATT TCCC TAAAT CACCTACCGA TTACCCTTGA TTTCCCTTTG	50
	TTTTCAGTTT CTCAAAACGA ATGAAATAGA ATATAGCAGA ATGTTAACCC	100
15	ATATAAAAT AAAGTGTACC CAAATATTGT AATGTATATT GCTGCTCTTC	150
	TTCAAATTAA ATAAGGGTTT AAAACCACTT AATTGGTAAT ACAACATCTC	200
	AATTGATACA AAT	21:
20		
	(2) INFORMATION FOR SEQ ID :953:	•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 236 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
.:	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :953:	
	GCAGCAGTTT CTTTGAAAAT TTGGACCAGA AGGTGCATAA CAAGTTGTTC	5
35	TGCAGAAGTT CTTATCTGAT ATTCTTAGGG AGCTATCCTG CATGTAATCT	10
	TCATTATTTT TTTTCTCTAC CATCATGTAG GCATACTCAG TGTAGACTAC	15
	CACAATCCTG GATACCTCTC TGCTTAGATT TACAATCTCT GCTAAGATTT	20
40	CCCACTGCAG AAAGTGTAGT ATTTTCACTA CATTAT	23

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	(2) INFORMATION FOR SEQ ID :954:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 217 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :954:	
,	GCAGCAGTTT CTTTGAAAAT TTGGACCAGA AGGTGCATAA CAAGTTGTTC	5
15	TGCAGAAGTT CTTATCTGAT ATTCTTAGGG AGCTATCCTG CATGTAATCT	100
•	TCATTTTTT TTTCTCTACC ATCATGTGAG GCATACCCAG TGTAGACAAC	150
	TENTITITI TITETETACE ATENTOTORO GENTACECAG TOTAGACAAC	13(
•	CACAATCCTG GAAACCTCTC TGCTTAGATT TACAATCTCT GCAAAGATTT	200
20		200
	GCCACTGCAG AAAGTGT	213
	(2) INFORMATION FOR SEQ ID :955:	
		•
25	(i) SEQUENCE CHARACTERISTICS:	
,	(A) LENGTH: 256 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :955:	
•	(wa, organisa substitution organisas.	
35	AGCAGCGACC GCGCTCACTG GCTTTTTGTT TCTGCTTGGG CCTTTTCTGT	50
	TCAGTCCATG CTTGAACTAC TCCACCCCT TAAATCCAAC GTAAAAACCA	100
	GTCTTTTCTG TGCTTGTTCT CTGTGCGTTA ATGCTTTTC TTATGCTTGC	150
40		

TTATTGAAAT ACTGTATTTT CATTGTCCCC TGGCCAAAAC ATCTGAGTCG

	TGAAACCATT TTAGATACTC TACTTTCTTA CTGTGTTACG TGGCATTTTA	250
	TGCTTG	256
5	(2) INFORMATION FOR SEQ ID :956:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 194 base pairs	
•	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :956:	
	CAAGCAATTG AGAGACTTTT TTCCTGTTAT TTTTCTACCA TTTATTTCTC	50
20	ATTTCATTAT ATTATGGTCA GAGAATATAT TTTGAATGAT TTCATTTATT	100
	AATTTTTAAA AATAACATTA AAAAATTTTT TAAAATGTGA ATATACCACA	150
,	ATACAGTATA AAGATTGTAC ATTCTGTTTT TGGACAGTTT TCTA	194
25	(2) INFORMATION FOR SEQ ID :957:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 196 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :957:	
	ATCTATTTT CTTGGTCTCA TACTCAGTTT TTTATGTAGT CACTTAGTAA	50
4Ó	ATAACCTAAA AAAACATGTT TTCTCCACAC TAATTTTAGG GTGAATTCCT	100
	CATTTCGCTT TTCAGATCAT GGGGTGAGGG GGATGGTTCG TGTGTGTGAG	150

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•	GAACTGAGGA ATCAGATGGA AAACAATGCC TCTGCTCCTT TGAGTA	196
	(2) INFORMATION FOR SEQ ID :958:	
5	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 105 base pairs	•
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :958:	
15	GCGCTCAGCT GGAACTTCCG ATCTATTTTT TCTTGGTCTC ATACTCAGTT	50
	TTTTTATGTA GTCACTTAGT AAAATAAACC TAAAAAAAAA CATTGATTTT	100
	TTCTG	105
20		
	(2) INFORMATION FOR SEQ ID :959:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 261 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
30		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :959:	
	GACAGCGACC GACACTCAAT GGAATCCCGA TTCCATGGAA ATGGAAAATA	50
35	GCTCTATTTA TACAGCAAAT TCAAATACAG TAGCTTGCTA AGCAACTTCA	100
	TAATTCATTA ACACTCGATG GCAGAGCAGA TAGTCACAAT TACTAACGAT	150
	TATCATGATC TGCATTCTTG ACAAGTATAC TATGGCGAGA TAAATCAAAC	.200
40	TCAGACGATG ATAAGCAAAC TCAAAAATGA AAATGATGAT GCCAACTAAG	250

	CTTTTGTTAA A	261
	(2) INFORMATION FOR SEQ ID :960:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 188 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :960:	
15	CACAGTTTTG TTGACTAAAC TCTACAGAAG TCAGGTATTG GGAAGGAGAA	50
	TCGTTTCTTC TTTAGAGGAG TAGGTTTTAA CCATGTTAAA TTTCCAAGAA	100
20	TAAATTTATT TATCACCTCT ACACAGCGCA GACCATTTCA GGAAAATAAA	150
	TAATTTTCGA TTCAAGTACT ATACAAACTT AACGATGG	188
	(2) INFORMATION FOR SEQ ID :961:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 191 base pairs	
.•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :961:	
35	ACTITCGCCT ACCCGGAGAG GCCCAGAAAA TTGACCAGAT GATGGAGGCC	50
	TTCACCCAGC AATACTGCCT ATGCAACCCT GGAGCTTTTC AATCCACAGA	100
40	CACACGCTAT GCACTGTCCT TCGCCATCAT AACGCTCAAC ACCAATTTCT	150
40	ACAACCAAAA AGCCAGAGAC AAACCTGACC TAAAGCGCTC C	19:

	(2) INFORMATION FOR SEQ 10 .332.	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 191 base pairs	
. 5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	*
	(D) TOPOLOGY: linear	. •
		÷
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :962:	
	CCAAGGCAGA GTTTATTAGG TTTATGCTTT ATATTTATAT ATAAGGTTTT	50
15	ATTCATGTTA AAAACTTAAA ACCAACGGAT TATGCAAAGT GATAAGTGTA	100
	TCAATGAATA TACAACTGAC TGGATTTTAA ATATACACAA ACCAGTATAC	150
20	CCCCAGTACT TAAATGAAGG CACTCAGTAT ACACCAAAAT T	191
	(2) INFORMATION FOR SEQ ID :963:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 178 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
•	(D) TOPOLOGY: linear	
•		
•		
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :963:	
	AGCAGGCCAA AAGCCCAGGT GAGGCCCAGC AGGAACAGCA GCCCAATGCC	. 50
35	TCCTAGCACT CAAGATCCAC CATAGTCCAA GCAACTGCAG TTACACTTGA	100
	GTACAAATAC GCTCCCGACA GCCTCATGCA GCGACACCCT AAAGGACACC	150
	CGAACACCAT CAATAACCGA ATAGACTA	. 178

(2) INFORMATION FOR SEQ ID :964:

(i) SEQUENCE CHARACTEPISTICS:

(A) LENGTH: 199 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :964:	
10		
	ACTTTGCAGT CCTCACATCA CAAATAGAGT AAAAGATTCC CAAAAGGAAG	50
-	GGGATCCTTT TGACTGCCAG ACGCGGGAAG GAAAGAATGA AATTAAAGAA	100
15	TATCCTTTTA AACACACAC TCGACACAT TTTCCACTCT GCTAAGGGAT	150
	CACAAAGACT AAGACGCGGG CAGACTCCCC ATAAGCCACG CTTATAACC	199
	(2) INFORMATION FOR SEQ ID :965:	
20		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 217 base pairs	
•	(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
23	(b) TOPOLOGI. IIMEAI	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :965:	
30		
	ATGGAGCAGG ACCTGCGATG TTCTGATGGA TTATACCCAC AGTGTATTTT	5
•	GGCACATCTG CCAAAAGCTA CAAACAACCC CTAATAATTA CACACTACAG	10
35	ATAGTGAGAA GCGTCCTACC CAGGAGTCCT GAATGTGATC TGAGTATGCT	15
	CTAAGGCAGC CCCAGGAAAA GCAATCCAAT CCCTTTCTCC TCGCCTTTAA	20
40	ACCTGCAGGT TGGGGCT	21
	(2) INFORMATION FOR SEQ ID :966:	•

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 175 base pairs(B) TYPE: nucleic acid

•	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :966:	
10	ATTTGCGACC AAAATCATCT GGGTTTATAT TTGAAAAAAC CTTGTTTTCC	5
	ATTIGOGRAC ARMITONIOI COUTTININI TICHBREBE CITOTITICO	J
	AATTTAAAAA TGCCAAGAAA GTTGTGAATA CCGTTCATTA TCACTAGGAT	10
15	CAAGAAAAG CAAATGGTTT AAGTTTTTAC ATAGGAAATC TAAGAACTAC	150
•	TCATCAATAA AACGCAACAC TATCA	17:
	TCATCANTAA AACGCAACAC TATCA	
·	(2) INFORMATION FOR SEQ ID :967:	
20		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 92 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
25	(D) TOPOLOGY: linear	
-30	(xi) SEQUENCE DESCRIPTION: SEQ ID :967:	
	AGGGGTTCAG GCCTGGAGTC AGGGAAGAAG GGGAAAGGGG CAGATAGCTG	5
	GGGGACAAGG AAAACCTGGC GCCCCCCACC GCGAAAAACA CA	9
35	(2) INFORMATION FOR SEQ ID :968:	
33	(2) INTONMITON TON DEG ID . JOC.	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 208 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	/D) TOPOLOCY, linear	

(xi) SEQUENC	E DESCRIPTION:	SEQ	ID	:968:
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GTAATATTAG GGACATGAAT GTTAGTACAG TAATTACCAC ACATGGAAAA 50 5 TATTGTTCAG CAGGAAAAGT AAAACTTTCA AAAAATTCCC TAAAGATCCT 100 ATTCAATAAA CAATTTTAGA TTTAAGGAAC CACTTACGCA AAACTCGAAC 150 200 AAATAACCGA AAACTCCACC TACCGCGCAA TACTCAAAAA CACAAAAATA 10 208 CTACTAAC (2) INFORMATION FOR SEQ ID :969: 15 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 256 base pairs (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear 20

(xi) SEQUENCE DESCRIPTION: SEQ ID :969:

25 50 AGTGGTTGGT GTTTACTGGA ATCTTGTTTT TTTTTTTTCG GTTTTTTTGA 100 CTACTCGGGG GGTTTTCCTT TTTTACAGGA ACTAAATCAA CAAACTTTTT CGATTCCTCA ACTITAGATT TTTATTTTTT TTGATTACCA TTTACTTTTC 30 150 TTCATTTAAA ACTTTTAACG CCTCAGCCTT TTTCTTAGGC CAAGGCCTTC 200 CACCAAGGAT TTACTCCGGG ACGGATCTAA CTGGATTTTC CGAGGTGGGT 250 35 256 TTAAGA

(2) INFORMATION FOR SEQ ID :970:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 240 base pairs
- (B) TYPE: nucleic acid

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(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :970:	
	AATCTATTTT CCTTGGTCTC ATACTAAGTT TTTTATGTAG TCACTTAGTA	. 50
10	AATAACCTAA CCCGCTTGTT TTTTCCACAC TAATACTAGG GCGAATTCCT	100
	CATTTTATTT TTAAGATCAT GGGGCGAGGG AGATGATCGC GAGCACGAGG	15
15	ACCTAAGACA TCAGATGAAA AACAATGCCT CTATTCCTTC AAGTATAATA	20
13	AATGATACCC GAGAGTAAAG AGCTACACTT CGCACCTCTA	24
	(2) INFORMATION FOR SEQ ID :971:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 184 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :971:	
30	ATCTATTTTT CTTGGTCTCA TACTCAGTTT TTTATGTAGT CACTTAGTAA	5
	ATAACCTAAT CCGCTTGTTT TCTCCACACT AATCCGAGGG TGAATTCCTA	10
35	ATCTAGCTTT TCAGATCATG GGACGAGGGA AATGACCGCG TGCGCGAGGC	15
33	CCTAAGGAAT AACATAGAAA ACACCGCCTC TGCT	18
•	(2) INFORMATION FOR SEQ ID :972:	
40	(i) SEQUENCE CHARACTERISTICS:	
	(D) I DIGMI. 224 been maken	

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
		•
5	(xi) SEQUENCE DESCRIPTION: SEQ ID :972:	
	GTGTTCTCTA AGGTGATACC TTTTAATTTT GAAAGACTAA ATAATTTTAA	50
10	TCGAGAATTT CCAGTCTTTC AGTCTGATCT ATTTAATTCA CTACTTGTTA	100
	CATARTCCAG TGARRACTCT ACTTGTTGAR ATTATGACAT ARAGATCTTG	150
16	CAGCTTTATT TGAGTATTTG TTCTTTTGTG TAGTTTCCAT CTTTTAAAAT	200
	ATTTAAAATA TTTTCAAGGA TAAAAGTATT ATCT	234
	(2) INFORMATION FOR SEQ ID :973:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 197 base pairs	
	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :973:	
30	TTTTCATCTA AAGGAGAGAG GCAGGCTCAG CTCCTGAAGG TCGCAGAGCC	50
	TCAGTAGTCC TCCTGAGTGC GTCTAACTAA CTACCATCAA AAAACAAACA	100
	AAAAAAACAT CACAAAACTG AACTGCCGCC ATCACCACTA CACCAAGTAT	150
35	GTGATTGAAT TATTCAATGA TCTGTTTTCG CGGTAGTGAC CAACANC	197
•	(2) INFORMATION FOR SEQ ID :974:	
40	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 244 base pairs(B) TYPE: nucleic acid

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	(C) STRANDEDNESS: double	
*	(D) TOPOLOGY: linear	
* * *		
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :974:	
	AGCAGGAGAT TTTTTTAATA ATAAACANCA ATGGAGAGGT GGAAATAGAG	50
10	ATGGAAAAAC AGGATCAAAG GAGCAACATA TCCAGTGACT TAAAAAAATA	100
	AIGGARANC ROOM ONCOMENTAL TOURCE TRANSMINE	10,0
	ATCACACGTG GCAAGAAGTT TTCTAAAGTA AACTGTATGT GGGGAGAAGC	150
•	ATACAGAAAA AAACGAAATA CATACACCCC CAGGTTTGAA AGAAAATAAT	200
15		
	TTTGAGTTGT ATCAATCTAT CGATATCAAA GAATGAATGA CCGC	244
•	(2) INFORMATION FOR SEQ ID :975:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 330 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :975:	
÷		
30	TTTTTTTTC TGAACACTTT GCTTCACACC TTCTCATATT CACGGTTATG	50
	AATTCTCCTG ACTATATCTA TTGTAACCCA AAACAGCAGA CTGTATTTAG	100
	AGACCCATTA GAGATTTCAT GTCTATATGC CCAGAGCCTG ATATAATGCC	150
35	nonceonin didniffent dicininide conducete nininidee	130
	ACCTTACTAT ACACATAATA TAGAATCTGA GGACTACGTT AACTGATACA	200
	TGTTAAGTAT CCTGCAGAGA GCTGGCACAT TGAATGTGCT CAATAATCGT	250
	•	•

TAGCTTTAAG TATCTACCTC AAAGGGCTAC TGTGTGACTC CAATGAGATA

ATGTGCAATG AAGGGTTTCG TGTAATATTG

300

(2) INFORMATION FOR SEQ ID :976:

	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 200 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	,
	(D) TOPOLOGY: linear	
10		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :976:	
	TGGTGAAAGG AATAAGCAAC TCAAGGTAAA TAAAGAAGAA AGATGAAGAT	5(
15	TCTTAGAATC GTAGAAAGAC TGCAGGGGGA AATAATTAAA GCAGCTTTAT	100
	TCCTTACGGC ATTCATCATT CGTCGAGCTG GAAAGCACTG ACAACTTTGT	150
20	AATGAGTTTT TTGCGCTTAA CTCTGTCAGG TGATTTATAT GAATNACTTA	200
20	(2) INFORMATION FOR SEQ ID :977:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 296 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :977:	,
	AAAGGACAAT TTAATATAAA TCTATGTTTG TGCATTTCTG ACAGGCCATT	5
35	ATTATCTGCT TTGACAAAGC CTTTCTGAAA CGCAGTGTAC AATGAATCTT	10
	AATGATGTTA TGAAACGAGC TTTGCT 3 GCTCTTGATT GGAGCTTCCG	150
	GTATGTGATG ACGGTATGTC ATGTATGCAT GGATGTACLE AACTGTGTTT	20
40	AATACTCTGA ATTTTAATTA GAAAAAAATA CAATAGCAGC AAGGCCCTGG	. 25

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	TTTCTAAGCT GCATACTTTT ACTAACGCGG GACATGAGCA AATGCC	296
•	(2) INFORMATION FOR SEQ ID :978:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 228 base pairs	•
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
10	(0)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :978:	
15	GAATCNCGCC TGACACATAG AATGCATAAA CGAGGGGGGT CCTTCTGCAG	. 50
	ATACTCTAAT CACTACACAG CTTTCTCTAT AAAACTACCC ATAAGCCTTT	100
	AACCTTTAGA GAAAAATGAA AAAGGTTAAT GCTTGGAAGC CGGGGGAGGA	150
20	CTGACCACTT CATAAGCCAG TACGTCTGAG CTGAGTATGC CCCCAGAATC	200
	CAGCCACTAC TGATAATTCA CAACGGTA	228
25	(2) INFORMATION FOR SEQ ID :979:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 171 base pairs	
•	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :979:	
	CGTACAAAAG CGCTTTGGAG ATGCCAGAAA AAACCCTACG GGAGGGTTAT	50
40	CCCCCTGACG CTAGGCCATG ACACAACTAA ACTTCAATAC ACCAGGACTA	100
	AGGCAAGTAT GAAGAAGCAA AATATCGTAA CGACGCACCC TCGAGATCTA	150

	CCAGGCAAAA CCAGAACCTG A		171
	(2) INFORMATION FOR SEQ ID :980:		
5	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 241 base pairs		
	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
10			
		•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :	980:	
15	TGATTCCCCA TTTCCCTGGA CAGGGCAGAG TCAAGCC	GAG AAGGAGGAGC	50
	CACAGGCCAG CTGTTAATGA GACACTAAAT AAAACGT	ICA GTATTCATAC	100
20	CTGTGGAACA TGGGTGAACC TTTCTGGTAA CTCGATT	ITT CACACCAATG	150
	ACAGCAAATG AGAAAGTGAG AGAAGCTAGA TAAATGT	ITT TAAAGCATTA	200
	CTGCAGTGGA AAATAACTGC ACTCTCAGGA CACAGCA	CTG T	241
25	(2) INFORMATION FOR SEQ ID :981:	· · ·	
	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 227 base pairs		
	(B) TYPE: nucleic acid		
30	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear	• .	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :	981:	
	TCACTGCAAT CACGGTAGCT TCGCCCATTG CCTCTTC	AAC CAGGCACATA	50
40	CATCGAGAAG TTGAACCTGC ACTTTATTTC ACACTGA	ACA GACTTACCCC	100
	GACAACAACA CCTCCCCAGT GGGACAAACC TACCCCA	CCT CCCCACACTC	150

	TACTCCCAGC TAACGTTCCC TATAATCATC ATGACCCATT AAACATTTGC	200
	AAAACCACAC TTCAACCCAC AGGAAGA	227
5	(2) INFORMATION FOR SEQ ID :982:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 205 base pairs	•
	(B) TYPE: nucleic acid	•
10	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	•
15	(with groupings proopings on its 1000	
12	(xi) SEQUENCE DESCRIPTION: SEQ ID :982:	
	CGTTGTCGCC ATGGTAATAC CGCTCAGTAC GGGAGGACCC ACAGGCTAAG	50
20	ACACTCGGAG CACGAGCTCG CCTGAGGGAC CAACGAGGCG AAGCCACAAT	100
20	CCGCGAACTC ATGACTGACC CCTTCTAAGT AAGAATCCCA CCCAGGCAAA	150
	CCAATCCGAC AACCGAAATA GCGCAGGCAC CGCCAAATTC AAGGCGCCCC	200
25	AAAAG	205
	(2) INFORMATION FOR SEQ ID :983:	•
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 204 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
2.5		
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :983:	
4.5	AGCAACCGGC ACTCAAGTGG AATCCCGAAA AAGTGATTTA AAAATGATCT	50
40	TACCTGTACC AGAAAAGCAA AATTAAAGGA AACAAAATAA GAACCATAGT	100

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	CCCAAATGAC ATTTAACCGT ACATACAGCG ATAACATGTT CAAAATCCAA	. 15
	CAAATAACGC AACTTCCAGA CGTAAATATC CGCCACTCGA TTCCCTCCCC	20
5	CCCT	20
	(2) INFORMATION FOR SEQ ID :984:	•
	(2) INFORMATION FOR BEG ID . JOY.	•
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 168 base pairs	•
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :984:	
		*
	ATTTGTATTA GAAAAGTAAA GTTGAAGGAA ATAAAATTTG CATTCTTGTT	5
20		
	TTAAGTGATC TTTAATTGTA TATATCGCGG TAGTATGTTC AAAATCCACT	. 10
	AAGTACTGTG ACTTTTAGCT GCAAATCTTT GCTCTTTGCT TTTTTTTTTC	15
25	TTTCTCCCCC CTCCCCAG	16
.*	(2) INFORMATION FOR SEQ ID :985:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 350 base pairs	
	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
35		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :98	
	CTCAGCTGGA ATGTCCGGTG CCTGCTAGGT GCATGGCCA. AGAAGCATGG	5
40		
	GCTGGGCCTG GGCACAGGAG GAGCAGCTGC TTTGGTCGGG GTGGAGACTT	10

•	TTTTTTTTT TCTACCCACA GCCTATTCCA CTCCTCCCCA TCTCCAGGCG	150
	CTGGGAGGG GGCCCTCACC CCGTCACGCC TCGCTCCTC CTGGCCCTCT	200
5	GGTCCAGCCC CTTACGCCTC CTCTCAGTCT ACTCAATTGT GACTGTCCCT	250
	CCTGATGTAT TTTTTTTCC TCCAACTCAA AAGGCAAAAA TAATCCTATT	300
10	TTTATTATCT TGCTACAACT GCAACTTTCT GCCCTATAAA TTTACATTCC	350
10	(2) INFORMATION FOR SEQ ID :986:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 289 base pairs	
15		
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :986:	
	AGCGACCGCC ACTCACTGTG AGTTCCACTT AATTCAGGTG AGCCGCTCTT	50
25	CTGCACCTCC TCCTCACACC TCTCTACCTA TACTAACCAT TTTTGAAGGT	100
	TCAACAATGC TCTGCAAATC TTTTTAAGAC CCGTTACTTC AACAACTCCC	150
30	AATACCTTCC TCCTCAACGG AACAACTTAA CCGTTACCTT TTAAACCCGA	200
	CGAGCTACAA AGCAAGAGAT ACTTCGCGAG CCAAATTCTA CAAAGGACCA	250
	AAAAAGAAAC CCATTACCTT ATAGTACTCA TGCAAAAAA	289
35	(2) INFORMATION FOR SEQ ID :987:	
	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 134 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(0)	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :987:	
	CACAATCATA GCATTTATTA CACGATTTAC ATCTGATCCT CACGCAATTT	50
5	TCTTCCTCAC CAATAAAGAA CTAATAGGAC AGCATATTAG AAGCAACATA	100
	CATTCTTTTA TTCTTGCATC GCTATAAAGA AGTA	134
10	(2) INFORMATION FOR SEQ ID :988:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 287 base pairs	-
	(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(x1) SEQUENCE DESCRIPTION: SEQ ID :988:	
	TTCTGAAATG AAGGTTTCGT CTTTAGCTAT TGACTGTAGG ATTTGTAATT	50
٠	CAAATCATCA CAGCATCCTA AAGAAATACT GTGTGAATGG AATGCACACA	100
25	ATTCCTACAG AACACAAAA CTGATGTCCA AAAGGCACAG AGTAATGCTG	150
	GTGGCTCTTT CTAGTCAGTT AAGAAACAAT AAAAAGTCTG CATTATTCTT	200
30	TCATAATTTA AATACTTAAG TAATCTCCAC TTTATTATTT TATAACAATG	250
	ACTTCAAATT TACATTATTT TAAGTACCAT TGTAATC	287
	(2) INFORMATION FOR SEQ ID :989:	
35		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 177 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(C) STRANDEDNESS: GOUDIE (D) TOPOLOGY: linear	
40	(D) IOLODOGI. IIHEGI	

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(xi)	SEQUENCE	DESCRIPTION:	SEQ	ID	:989:

	AGCARCCARC ACTCACTGGR ATCCCGCART CARGAGCTAR RAGGACTTCT	50
5	TCCATCTCTC AGGGACACAC ATCCACCGAT AAGAATAAAA GAAATGCCTG	100
	AATGACTCTC ACTGGCACTT TTAAACACAG CAAGCCCAAC ATATTTTCTC	150
10	CTTTTCATAA AGAAGCCTAT ACACCAT	177
	(2) INFORMATION FOR SEQ ID :990:	•
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 158 base pairs	
15	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(b) 10102001. Illieat	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :990:	
	TTCCTATACT ATGTCGGTTA AAAGCCTTCA TAGAATATAG GCACCAAAAA	50
25	TAAACTAACC CCACACCCTC ACCAACCAAA GGAGGCACAA TCCAACGAAA	100
•	CTGATGAAAA GTCGAGGTAA CGACTCTGCA GACCGTACTC ATTTCTAAAC	150
20	CAAAAGTC	158
30	(2) INFORMATION FOR SEQ ID :991:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 267 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :991:

	TAATCCCTTT TAAGCAGAGA TACACATTCA CAGAGAGAGA ATGTTTTAAA	50
	AAGACCCACA AGGGGAAGGG ACCAAGTAAG CACTTTTAAT TCATTTTGAT	100
5	TACACAAAAA TAAGGCAAAC TAAATGATTC AGAACAATTC AATTTAACTG	150
	AAGCCTTCTA GAAAAATACT CAACAGGCTT CAACAAAAAG ACTTAGCGCA	200
10	CATAAAACAA TCACGAAGAT CACAATTTCA GCACAAATAT CTGAAGGAAT	250
	ACACGCAAAA CATCATA	267
	(2) INFORMATION FOR SEQ ID :992:	
: 15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 199 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :992:	,
25	AGGATGTGTT CATGCTGGCT TTCAGGATGT CCCAAGGCAC GGCACAGTGA	50
	TTGTCAAATT CCACTTTGCA TGGAAGACAG CACAGAACCC TGCTCTGCGT	100
·30	CAGCTGGAGA GCTCCGGCCA GCACGCCCAC CAGCAGCATG ATCAGTGTGA	150
	TGCAATACCA GAAGCCGTCC CACCATGATT TTAAGATGTG ATAAGATGA	199
	(2) INFORMATION FOR SEQ ID :993:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 198 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
40		

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :993:	٠
	TTTAAGGTGC TAAACTTGCA CCTCATGTCC ACTCAGTAAC AAGTATTGGG	50
5	ACGTAGAGCA CAGCCTCACT CAGCTCTGAA AGGTAATACA GCTTGCGAGG	100
	AAGTGAGCCA GCAGTGGCCT TTGCAATTGT GGATCTTGAG CTTTGCTCTT	150
10	AGCAGATCTC AGGCGTAACC ATTCGCTAAC TGTACTGAAG ATGCGTCC	198
	(2) INFORMATION FOR SEQ ID :994:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 183 base pairs	
15	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :994:	
	GCTATCTGCG GGGCCATTCG TAGGATGGGT GAGTCAGATG ATTCCATTCT	50
25	CCGATTGACC AAGGCCGATG GCATCGTCTC AAAGAACTTT TGACTGGAGA	100
	GAATAACAGA CGTGGAATAT TTGTCATAAA TAAATAACGA AAACCTAAAA	150
30	AAAAAAAAA ACAACAAACC CCAACAAACT CAA	183
	(2) INFORMATION FOR SEQ ID :995:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 199 base pairs	٠
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :995:

	ACCTCTGCAT TAACACTCCA GCACCTTTGG TTAGCCAATT TGGCCTTATT	50
	TGTGTCTCCA CCATTGGATT ATCTGTCCAT CAAGGTCAGG AATGTTTTCG	100
- 5	GGTTACCCCA CTGTCCCCAA CTTCGAATAT GCTCACTGCC TGGAAAATGT	150
	TTATCTGAAT ATAAGGCATC AAGCCAGAAC TTGCCCAAAA CTAAATCTA	199
	(2) INFORMATION FOR SEQ ID :996:	
10		•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 177 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :996:	
20		
	GGTCTTGGCT GGTGGTTTAT GGCCCGGGCC TTCTTTCTAC GGGGGCCAGG	50
•	GTCCAATTTT CCACCTGGGG TTTAAAAGTT AAGGAGGACC AGCCTGGGAA	100
25	CCCCTCGAGT GGGGACGCCA TTTCTATTAC CAGGGCCCCC TTATATTTTA	150
	AGGGGACACC ATATGGAGAT TTTATGC	177
	(2) INFORMATION FOR CRO ID . 807.	
. 30	(2) INFORMATION FOR SEQ ID :997:	
30	(i) SEQUENCE CHARACTERISTICS:	
	· · · -	
	(A) LENGTH: 229 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
33	(b) Torologi. Timear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :997:	
40	(AI) DEGOENOU DESCRIPTION. DEG ID 1997.	
	GAGTTTCCTG TGCTGTTACA AATGTAACAT TCTCATATAC AACATTCATT	50

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•	GAAGAGGCAC AATTCTTATT TTGAGGTGGC ACAGATTAGA CAAATTTTTC	100
	AGTGAATAAT TCCTCTTTCA TTAGGAAATT TAACCACAAG CTGTATTTTC	150
5	GTAGAAAGTT GCTTGAAATT CTTTTCCTAA AAAAATTTAA TTTTTCTATC	200
	TCAAAATGAC CGTATGCAAA CGAACATTA	229
10	(2) INFORMATION FOR SEQ ID :998:	
10	() CROUDNOR OURDROWN OF THE	-
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 233 base pairs	٠
	(B) TYPE: nucleic acid	
3.5	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :998:	•
20	(XI) SEQUENCE DESCRIPTION: SEQ ID :990:	
20	TTGCAGTGTT TATGCCCGCC TTCTTTCACG GGCAGGTTCA ATTTCACTGG	50
	TTTAAAAGTA AGAGACAGGC TGAACCCTTC GTGGAGCCAT TTCATTACAG	100
25	GTCCCTTAAT TTAAGGAACA AGTTGATTTA TGCTACCTTT TTGCACGGTT	150
	TAGGGTACCG CGGCCGTTAA ACATGTGTTC ACTGGGCCAG GCGGTGCCTC	200
-		
30	TTAATATCCG GGGATGTCCA GAAGGGGAGT TTT	233
	(2) INFORMATION FOR SEQ ID :999:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 216 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :999:

	TCAAAAACTC AATATAATAT GTAAATCAGG GGTGTCCAAT CTTTTGGCTT	. 50
	CCCTAGGCCA TACTGGTGTT AGGCCACATT CAAAGCTATC CTAGGCCACA	100
· 5	TGTGGCTGGT GGGCCATGGG TTGGACAAGC TTGATGTAAA TAAAACCACC	150
	AGTGGAAAGA GTTTGTTGTG AGTTACATTC AAATACAACA GGAGTAATAC	200
	TATCATGATA TTAGTT	216
10	(2) INFORMATION FOR SEQ ID :1000:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 280 base pairs	
15	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1000:	
	GACAAGACCT AGAAGCAACA ATGCCCAGTA GAAACAAACA CACCTACTGC	50
25	CTGGATCTTA GTTTTTAATT ATATTCCCCA ATAAAGAGAC CCAGGGCTCC	100
	TTGTTGAAAT GGCTGATTCT AGGACTGGGG CAGGAAATAT GCAAGATGAA	150
30	CCTAGAATAT CTAATACTGC CAAAAATTAA GAAAGTGTTC TAAAAAAAAT	200
	CCCCACGGAT AGGGTGTCAA AAGAGACATA GAAGCCATCT GAAGGAGTTC	250
	CCAATGGCCA AAGATCAAAT AATTTTTCAA	280
35	(2) INFORMATION FOR SEQ ID :1001:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 324 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

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	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1001:	
_	TGCATGATAG GAGCGTCCTT TGTTCTCATG AGGTGACTCT TGGTGGGCTC	5
5	CTTATTTGGG GACTGGTCAC CAAAAATACC TAACTATGGT TGGAAGCTTA	10
	GTGCTTTCAG CCCCATTCCC CATCCTCTGG AAAGGGGAGC AGAGCTGGAG	15
10	CTCGATCATG CCTGCGTGAC AAAGCCTCCA GAAAAATCCT TGAAAGACAG	20
	GACATGGAGA GGCTGCTGGG TTGGCGAACA CAGCCATGTG CCGGGAGGAT	25
16	GGTGCACCCC AACTCCACAA GGACCCTTCC AGACCTCACC TGTGTATCTC	30
15	TTCATCTGGC TGTTCATTTG TATC	32
	(2) INFORMATION FOR SEQ ID :1002:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 254 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
		-
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :1002:	
30	ATTTCCATTC ATAAGTCCTC ACAAACCCAC TTTTCCTCTT GCCTGAGTGC	5
	CTCACATACC CTACTGCCTG AGATGGTTCC AGAGGCGGTC TCCTCTCCC	10
35	CCCAACGAAA CACCAGGCAC ACACCTGCCC CCAGTCTTGC CTGCACTCTC	15
JJ	CTTTCCTCCC GCAGAGAGGC ATTCCTTTCT CCTCCTCTCA TCCTACACAC	20
	ACTATAAGAG ACAACTGAAA TCTTGCCTCC TCCAGCAAGC TTCTTAATTC	25
40	a more	

(2) INFORMATION FOR SEQ ID :1003:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 265 base pairs(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1003:	
10		
	AAGGTTGCGC TGCCCATCCT CTCGCCCTTC GGAATTTACC CCTGGCCGCT	50
	CAGGGTCTCG CTTCTAGAAG AAGATGATGG ATACTAGGGC GATCCTCCTA	100
15	TTGCCTTTAT ATTTAACAGG CCCGCCGAGG AGGGGCTCCC GCTGGTGCCC	150
	ACATAACTCT ATTAGACCAT CTGAGGCGAC TTCCCCCACC CCCTCCAACG	200
20	CGCCTCACGC ACGACTCTAG CAAAAGACAG GTTCCGCGGT GGTCACGTCG	250
	TTTGAGACTA TACTG	265
	(2) INFORMATION FOR SEQ ID :1004:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 263 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1004:	
35	AAATATGCCC TGAGGATTAT CTGATGTCGA TGGTGTGGAA AAGAACTCCA	50
	GCAGGCGACT TOS PATTONA TONATGTOCO CTGAATGCCA CAGAACCACT	100
40	AGCAGACGCT GCTCTCTCAG TCTTAATGGA GTGGCCTTCT GGGAACAGCC	150
	GAGCTTTGAA AGATGCATAT CAAATGAGTA CAGACACTTG TAGCATTTAA	200

	TCAAAGAGCA CCTTGCTAAG AGGCAGCGAA TGCTGGCAGG TGATGGAATG	250
	CCCCAGGTGA CCA	263
5	(2) INFORMATION FOR SEQ ID :1005:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 317 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :1005:	
-	CGAGACTGCA GTACTTCTAG AAAGTTGTGA ACTTCTAAGA AAGAGCCAGG	50
20	CTTCCATCTC ACTATTCCTT GATCATTATC TCTGAAGTCC CTACCTGCAC	100
20	TTCCCTGATT GTCCTGTAGC AACACCAGCA TGGTGGGAAT TGCAGGCAAA	150
	GATTGTGAAA AATCCCTAAA GGGTCATTGC TCATGACGTT ATTTCGAATT	200
25	GTAAAATCGT GAGCCACTCA TATTCAAACT AAAAAAAGAA CAGAACTTTT	250
-	ATTCACGTTG TGAAGCTTAC TCCCTCGCCA TTTTACGGAT CAATGTCAAA	300
	CGCTTGCATT CATAAAG	317
30	(2) INFORMATION FOR SEQ ID :1006:	
	(i) SEQUENCE CHARACTERISTICS:	·.
•	(A) LENGTH: 287 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	CGGAAGCATT ATCCTGTCAT CAGAAGATGG ACCTTTCCCT GGAATGCCTT	- 50
	TTCCCTATCA TGTCTGTGTG GTAAATACCT ATTCATCCTT AACAACCTAG	100
5	CTGAGGTCTT ACCTCATCAG GATTTGATCC CCCAAAAAGA TTTGTCCCTC	150
	TCTGAGCTAT CTTTATAACT AGTACATACT CCTACCAGCG GACTATGTTA	200
10	TAATAATGTG GCTATATGCC TGTGATCTCA GCGTGAGCTC TTTGAGGACA	250
10	GAGTCTTTGT CTAAATACTC AAAACCCTGT TTACCAT	287
	(2) INFORMATION FOR SEQ ID :1007:	
15	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 273 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
20	(5) 10100011 11	
20		•
. ·	(xi) SEQUENCE DESCRIPTION: SEQ ID :1007:	
25	GGGCACCAAA ATACACATCA GAGGAGACTG GCTTCCATGA GACGCTTCGA	50
	CTGTCTCATC GGGGCACTTG TAATAAGCAT CTTGATGCCA CTGAATGCAA	100
30	TGCTGTATTC AAATAATAGC TTTCATCTTC ACTATAAAAC AATACAAACG	150
30	TANACTTTGA AGCCCTTTGA AGGACCTAAC CAAACAACAC AAGGATGAAA	200
	ATAGATCAGT ACAACTTTGA GACACATTAT TAGGTCAAAT CTGCAAAGCA	250
35	TATTCGGATT TTACCGTAAG GAA	273
	(2) INFORMATION FOR SEQ ID :1008:	
•	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 308 base pairs	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

	•	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID :1008:	
	TAGAGTGGGG GGCCAAAACC TCTGCAGTCC CCGGCAGTGA GCTATGGACT	50
10	TTCTTCCCCC TCACAAGGCT GGGGGCCTCC TGCTCTCGTC CCTGGCCCTC	100
10	CCTGCACAGG GCAAAGCCAG TCTGGGCTAT GGCACACAGA GTTCATGTTT	150
	. GCGCCCTCTC CCTGCCCCTC ACCCCAGAGG GTGAGGAGGA ATGAGGGGCA	200
15	TTGATGGTTA GGCCGGTTGT TGCCTCGAAC AGCTGGAGGG AAGCTGCAGG	250
	GGTGATAAAA TCAAAGCGAT ATTGACACAC TACAAACATT ATAGAACCTG	300
	CAAAAAA	308
20		
	(2) INFORMATION FOR SEQ ID :1009:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 187 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	-
	(D) TOPOLOGY: linear	
		•
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1009:	
	GAACCGCCTC TGTTTCCAGA GCAACTGGTC AAAACCTCTC CAAATACCGA	50
35	GCAGTTTTGA AAACTGGATT AGGAACCACT AATGAAAAAG AACAGACTCA	100
	GGGACAAGTG TTTGGCGGGA ATGTGTGAAG AGGTAACTAA TGAGTGTCAC	150
40	TGAATCACAC TATTACACAG ATGAAACAAA GCCTTTA	187
	(2) INFORMATION FOR SEQ ID :1010:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 175 base pairs

	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
		,
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1010:	•
10		
	AAGAAAAGA TATTAAGATG GGCAAGTCCT GGTGGCAAGA CAAGCAGATG	50
	ACARMACA CANMOCACAM CANACHCOMO GGAACCMAAM MHACAMHOMA	10
	ACATTACAGA CAATGGACAT CAAACTGCTG CCAAGCTAAT TTAGATTGTA	100
15	AAAACAGCTC CATAGTCAAT ACCCATGAGT GATCTTAAAT ACGCACAATT	150
13	ANALOGOTE CHINGTONI ACCONTANCE GRICITARME ACCORDANTE	13(
	AAGCTACTTC TCCTTGATAT TACCT	175
· .		
	(2) INFORMATION FOR SEQ ID :1011:	
20		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 208 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
•		
	(with GEOMETICE DESCRIPTION, SEC. ID .1011.	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1011:	
	TGAAAAATAT TTGGAACTCT TTAGTACAGA ACAGTTTCAA TATGAGTTAA	5
		_
	GAATCATGCG ATGACTACCA AAAAGCTAAT GCGATCCCAG GCTGCGGTAA	10
35	CAGAAGCAGA GCAGCTCAGC TGGGGAACGT GATAGTGATA ACTACTTCGT	15
	ACTAGGTTAG ACTGTACCGA GAGACCTATG TTCAGTTCTG GGAGTGAAAG	20
	TATTTAT	20
40		
	(2) INFORMATION FOR SEQ ID :1012:	

51:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 184 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

Þ	(b) TOPOLOGI: Tinear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1012:	٠.
10	ATGATATCTA GACTACCAGT ATTTTTTGAA TGAGGCTTTC TTAGGAGTAT	50
	GTTGATGCAC TCTCATCCTT TCCTCCCCGG ACTCCTACCA CAACCCTCTG	100
15	ACTGTGGAAT AGCATGGTTG TGTGTAAGGC TGGAGCACAG GCACAGTGAG	150
	ATGAGGATGA GGGATTGAGG GATGCTATAA GCCA	184
20	(2) INFORMATION FOR SEQ ID :1013:	:
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 263 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
٠		
	() CROUPLOR PROCEEDINGS OF TRAINING	•
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1013:	
	CTTTGACATT TGATCAGACC AAACAGTGCT GTTTCCCGGG GAGGAAACAC	50
	ATTTTAATAA ACACATCATC CCGCAGGCTC CCACCTTTAC CTCATGTTTC	100
35	ATACCTTGTT TATCAAATGA GCGACTCAAA ATGATTAAAA ATAATGCTGT	150
	TCTTTAGTAG CAACTAAAAT GTGTCTTACC GTCATTTATA TCTTTGTCAC	200
40	CGGAAAGAAG CATTTTTGAT ACTTTACTGC GAGTCAAAAA TCAATACGCA	. 250
40	GAATGGCATT TGA	263

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	(2) INFORMATION FOR SEQ ID :1014:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 229 base pairs	٠
. 5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
•		
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1014:	
	CAAATTAAGT GCCAGAATGA TGCAGCCCGC TCTCACCAGG AAGAACGACA	50
15	TGTGAGAAAA CTTATAGCAG ATGCAAAAAT GTCAACCCAC CATGTTATTT	100
	AAAAAAAAT ATGACCAGGA TACAAGGACA CTTCACCGTT TTTAACCCAC	150
20	ACAAGGTCAG GTAATGTTTA CCTTGAAACA CAATCGCATA TGACCCTTTA	200
	TGCCACTCAC CTAGGCCTTT AATAATGAG	229
	(2) INFORMATION FOR SEQ ID :1015:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 246 base pairs	
	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1015:	٠
35	GAAAATAATG ATTCATATTA CCGGGTATTT CTTATCCAGT CTTTCATTCT	. 50
	ATGTAAATTG TGTGTGTC TATATATGCG TGCATGTCTC TCTCTACATG	100
40	TATATGTGCA TATGTATGTA TATATATGCA TATGCACATA CATGCCACAC	15

ATGCACATAT ACACACACTC ATAGAGAACA AAATTATTCC GAATATTTCA

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	TGAGGTTTCT TATTATAAGG AGACAATATT GATGCAATCT AATTAA	246
	(2) INFORMATION FOR SEQ ID :1016:	
	A A CROUDING OUR DECEMBRISHED CONTROL	•
. 5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 287 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1016:	
15	TTCATAATCG CTGGCACTGA ACAAAGTTGC AGAATTCTTT GCCAGGTACT	50
	TTAGGAAATC GTGAAGATAA TTGAGTAATA AAGCAAGGCT CTTCTCATCC	100
20	AGAGGTGTAT AAGCCAACAT CGCTCCAATT CGTACAAATA ATCTCAGGAG	150
20	ATGTGGCGCT CCATACACCT GGGACATGGG TGCATCGGGA TGATCTGCAA	200
•	GAATTTCAGC ATACTGTGGT CTCTCAAATT TATAGAGTAG CTGGGTACCC	250
25	AACATTACGT TGAAGTATTC TTTTATACTC GCCACAA	287
	(2) INFORMATION FOR SEQ ID :1017:	·
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 299 base pairs	
-	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1017:	
40	ATATGAGAAA GCAGAGCAAA ACAGATGATG CTCTAAATGC AACTGACACA	. 50
40	CTTGCTAAAG ACGTTAGGTG CTCCATAAAT GCTTGTTGAA ATGCTGTTTG	100

	TCAACATTTG TTGTGAAAAA TTCATCTCTC CATCTAAGAA TCCTCATGAG	150
	TTAACCACAA TCAGTTCTAC ATAATTTAAC AGAAAACATC TGGTGGCACT	200
5	TTTAAATGTT TAAGGACAGC ATTTCACAAA CTAAGCCCGC CCCCAGTCCC	250
	ACTGCAGCAG GAGAAATAA GGCTATGGAG AAAAGCAAGA TGAGTTATA	299
	(2) INFORMATION FOR SEQ ID :1018:	
10	CONTRACT CUADACTEDISTICS.	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 274 base pairs	
	(A) DENGIH: 2/4 base pairs (B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
15	(b) Torobodi. Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1018:	
20	(XI) SEQUENCE BESCRIFTION. DIE DE LECT.	
20	ATTACTCCTT CTCTCGAATG CTTCCAGAAG AGTAGCACTC ACCACCTCAT	50
	GAGGAAAGGC ACTGCAACTT TGGTCAATGA TATCTGTTAG AAAGATCTTT	100
25	TCCTATATTT AGAAGAGTGA TTCTCATACC TGAGCATGTA TGAGAATCAG	150
	TGGGTTTGAG GTGGGCCCAA GAATTTCCCT TTTTAACAAG TTCCCAGAAG	200
30	ATGCTGATGT GGCAGCTTCT AGCACAGTGC TTGAAAATCC ATGAGTTTTC	250
30	AAGAGGACAA TCTAAAGTGC TCCC	274
	(2) INFORMATION FOR SEQ ID :1019:	
25	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 232 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

	(xi) SEQUENCE DESCRIPTION: SEQ ID :1019:	
	TTTCTTTGTC CTTGACAAAT ATTTATGGAA TGCCGGAAAT TATGGAAAAA	50
5	CAATTCCAAT GTTACGAAGT CCAAAGAACT GGAATGAGAA AACTCCTCAC	100
	GGCACATTAT GCTGCATGGA ATGACAATCA TCCTCGGGGA ATTAGGGCAG	150
10	CATCTTCTAC CACTTTTAAA GGCTACCACG AGACGGGGTG GAAATGCCAA	200
10	AAATGGCACC TCATCTTTGA TCAAAGATTC AG	232
	(2) INFORMATION FOR SEQ ID :1020:	٠.
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 133 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :1020:	
25	AACAGTCCAT GCTGATCTTA GTAACTATGA TGAAGATGGT GCTTGGCCTG	50
,	TTCTTCTTGA TGAATTTGTT GAGTGGCAAA AAGTCCGTCA GACATCATAG	100
30	CAAGAACTAT GTGAAGAAAA TGCAAACCTT TAC	133
	(2) INFORMATION FOR SEQ ID :1021:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 280 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

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(xi) SEQUENCE DESCRIPTION: SEQ ID :1021:

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	TCCTAGAACT CTGCTTGGAC CAGAAGATGT GAATAAACTT AAGCTTATTT	. 0
	ATTTAAAATC ACAAATGAGT TGCTCTAGAT TCTAAAAGGG TGAAACTTTG	100
5	ACTGTTGAAA GTTTAAGTAT TAGTAAACTT GAGTTACTTT TTCTTTCAAA	150
•	TTTCACTCCG CTTCCCTGCA TTTCGAAGCT GCTCTTTCTG GTCCTACCCA	200
10	CCACCCCACC AACAAGACTT GTGTTTGTTA ATAGAAATAA TTTATCAAGG	250
10	TATTGGGGAT CCATTGTCTA TATTTAAAAC	280
	(2) INFORMATION FOR SEQ ID :1022:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 304 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1022:	
25	AAAATAAATA ACTTCTTAGA TTTTTGACTG AAAAGATCTG AGAATGTTCT	50
	GCCAAACAGC CGACCAACTG GTGCAAAAGG TTAAGGCTGA CTTGACTTAG	100
30	CAACCTGCAG CACAACCAAA AACACTGATG CAGTTCAGAG CTCTTCAAAT	150
	GCATACTTCA GTGTTACACA CACATCAATT AAATTAGGTT AAATTAGTTA	200
	ATCCTCTAGA CAGTTTTCTT TTTGTTTTGC ATGCATCCCG TTCCATTTTC	250
35	ATTACGGGCA TCTATTCCTT GATCAATTAT GTGCTTTGCT TTTTAATCGG	300
	TTTT	304
	(2) INFORMATION FOR SEQ ID :1023:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 237 base pairs

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. 317	•	
(B) TYPE: nucleic acid		
(C) STRANDEDNESS: double	•	
(D) TOPOLOGY: linear	•	
	•	
(xi) SEQUENCE DESCRIPTION: SEQ ID :102	3:	
TTTCTTTGTC CTTGACAAAT ATTTATGGAA TGCCGGAAAT	TATGGAAAAA	50
CAATTCCAAT GTTACGAAGT CCAAAGAACT GGAATGAGAA	AACTCCTCAC	100
GGCACATTAT GCTGCATGGA ATGACAATCA TCCTCGGGGA	ATTAGGGCAG	150
01mcmmem1c 01cmmm111 0cccm1co1cc 1c1ccccan	0))) ((((((((((((((((((((((((((((((((0.00
CATCTTCTAC CACTTTTAAA GGCTACCACG AGACGGGGTG	GAAATGCCAA	200
AAATGGCACC TCATCTCTGA TCAAAGATTC AGAGCAT		227
ANAIGOCACE ICAICICIGA ICAAAGAIIC AGAGCAI	•	237
(2) INFORMATION FOR SEQ ID :1024:		
(2) Information for pag 15 (1024)		
(i) SEQUENCE CHARACTERISTICS:		
(A) LENGTH: 320 base pairs		
(B) TYPE: nucleic acid		
(C) STRANDEDNESS: double		
(D) TOPOLOGY: linear		
	•	
(xi) SEQUENCE DESCRIPTION: SEQ ID :1024	4:	
GGCATGATTA TTAGAAACTA TTTAAGCTTT TTTCTTTGAA	AAACAAGCTC	50
CTTTTACAGA ATATAAACAA CAGTAGTGCC TGTGGTTTAG	CCCACCAATC	100
	•	
TTGATGACTA AAAGTAGCTG ATGCATTGTG CATATGATGC	TTGAGATGGT	150
	•	
TTTTGCAAAA GCAGAAATCG CTGCAAGGTA ATCACAATAG	ATAAAAGTGG	200

TATTTTAAAC CTTTGAAATA AATGGATGTA ACTGTACCTT GGTACAGCTT

TTCACTTGTT TAGTTTTTAA ACGTTAGTAT AAGATTAGGT AATTGAGGGT

250

	TAGAGCCAAC AGGAATCTGC	320
	(2) INFORMATION FOR SEQ ID :1025:	· .
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 202 base pairs	
	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1025:	
15	TTCTGGCACC ACATTCAATA CTGATTCACA GGGATCTAAA ACATTCTAGT	50
	TATTCAGTCA CTCTGTCCTG TGTGGCAGAT AGGACTTATG TATCTTCAGA	100
	ATATTTGAGG AGTCATTCTC AGAGTCTCTC ATGAGTGCTC AACTTAACTG	150
20	TTCCACAAGT CTGTCTTCAT AGCTGCATGT TGCATCTTCC AGTCTCTGTT	200
	CT	202
25	(2) INFORMATION FOR SEQ ID :1026:	
•	(i) SEQUENCE CHARACTERISTICS:	
÷	(A) LENGTH: 243 base pairs	
	(B) TYPE: nucleic acid	·
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :1026:	
	ATTGGTAGAC AATATCATAA GAGTTTTCTG ATAAAAGATG CTTTTTAACC	5
	CTGACTCCCA GTCACAATTT TGGCATCTCA TCCATGGGAA AAAAATAGGA	10
40	AACTTATACA TTTCATAAAC TAAAGGTCAT CCAAACACTG CCAAAAACGT	. 15

	TTTTATAAAT TGAGACCTAC TTACATCACA TCGGTTTTCC AAAGAGAATA	200
	CACAGCGAAA GATGAGGCTC CACCCGGCCG GCACAGTCAT GAA	243
5	(2) INFORMATION FOR SEQ ID :1027:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 185 base pairs	
	(B) TYPE: nucleic acid	•
10	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	•
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :1027:	
	TATTTGCATT GAGGAAATAT TAATTTTCCA ATGCACAGTT GCCACATTTA	50
	GTCCTGACTG TAGGAAACAC TGATTTTGTA AAGTTGCCTT TATTTGCTGT	100
20	TAACTGTTAA CTATGACAGA TATATTTAAG CCTTATAAAC CAATCTTAAA	150
	CATAATAAAT CACACATTCA GTTTTAAAAA AAAAA	185
25	(2) INFORMATION FOR SEQ ID :1028:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 312 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :1028:	
	COMMONORDER TROUTCOMORO COCCESCOS DOS DOS DESCRIPTOR TROUTCOMO	
	GCTTCTCTAT TCCTCCTGCC CGGGAGGAGT AGAGGAATTC TGGAGCCACC	50
40	TTAGTGGGCA ATGGGGGAGC TCCTGATGGT TCAGGAGCAG GAAATTTATG	, 100
_	AGCAGAGTGG GGTCCCAGGC CACAGGGAGA TGTCTATCCA CAAGGGATGG	150

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	TGGCCAAGGG TTGAATGGAA AGAGGCAGGC AGGGGGAGAG GGGCAGAGGG	200
	TGTGGGTATT CCCAGGGCCT TGAGAGTGGA CATGGCCCCT TCTCCTCAGC	250
5	CTTCCATTAG CAAGGATGTC ACTGCTGCTC TTGCCTGATG ACAGCCAGAT	300
	CTGTTCACAG TT	312
10	(2) INFORMATION FOR SEQ ID :1029:	
10	(CROUDNER CUADACTERICATOR.	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 218 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
10	(5) 10102001. 1111021	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :1029:	
20	ATTATTTATA AATTTTAGTG AGCACCACCA AAGTTAGGAT TCAATTGAGT	50
	TTGAATTCAA ATTCATTCAA AAGTTGCACA AATTTATTTC TTTTTTCCTG	100
25	AACATTCCTT TACTTCAGAT TGACAATTCA TTCTATTTAG AGCGCTATTT	150
	TAAGAAACCT TGATGAATCG CCCTTGACTA AAGGAAACAA AGTAGAATTT	200
	TATACAGATG GAAAAAGA	218
30	(2) INFORMATION FOR SEQ ID :1030:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 124 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
	•	

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(xi) SEQUENCE DESCRIPTION: SEQ ID :1030:

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4	TTATTAGGGG GTTTAGAAAA TAAATTCGTA GGGTTTAAAC ATTGAATAAA	50
	ACTACAAAAA AAGACACACA TTCAGGTAGC GAGGCTCTGG GGGTAACTCT	100
5	TTCTTAGTTC TTTGGACACA TCCG	124
	(2) INFORMATION FOR SEQ ID :1031:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 237 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1031:	
20	TTTTGCCAAG TATATGTAGT GCAAATATTT TCTTTCAGTC TGTAGCTTGC	50
20	CTTTTTATTT NTTAATGGGT ATCTTTAAAA AAATGGAAGT TTTAAGTTTG	100
	AATGGAATTC AGTTTGTTTT TAAAGCTTGT GCTTTTTGTG TTCAACTAAG	150
25	GGATATTAGC TTACCATTTT TCTCGGTTGA ATATTATGTG TTTATAGACA	200
•	AGAAATGGTC ACTAAAGCAA AATAACTGAA AATTATC	237
. 30	(2) INFORMATION FOR SEQ ID :1032:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 147 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(5) 101020011 1111001	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1032:	
40		
	ACAGCAACCG GCACTCACTT GGAATCCCAG TGTTCCGAGT TCTAAGGCCA	50

	CTGAAAACCA TCAAGCGCTT GCCAAGCTCA AGGCCATCTT CGACTGCGCA	100
	GCGACTTCCT TGAAGACTGT TTTTAACATA CCAAAGGAGG ACAAGCT	147
5	(2) INFORMATION FOR SEQ ID :1033:	
	(i) SEQUENCE CHARACTERISTICS:	
. •	(A) LENGTH: 238 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
:		
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :1033:	
	AGGCCTGCCT ACCGTAGGTC TCTCAGAGCC TTTACTCTAG TCACTCTTTA	50
	GAGGGGGCA CTAGAAGCAA TATCTCCGAA ACTTCTTCGA CTGTCGAGAC	100
20	TTTTTACTCA TAATTCGCTT CAAGCCAACT ACGGAGGCGC ATTTACAAAA	150
	CTGAAATACG AGCGACACCC CAGGAACGCA CGGAGACATG ACGCCCTTAA	200
25	TCCTCTGTCC CTACTCCCTC TCCTAGGACA CCGCATTA	238
	(2) INFORMATION FOR SEQ ID :1034:	
	(i) SPOUPNCE CUNDACTEDICATOR.	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs	
50	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
33		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1034:	
40	TCCATGNCTC NTGGTCTCTG TGCNCTTGNC AGGGGCATGC CAGGGCCCTT	50
40	GGACTGTGCA GGG	

	(2) INFORMATION FOR SEQ ID :1035:	
	(i) SEQUENCE CHARACTERISTICS:	
V - 1	(A) LENGTH: 180 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1035:	4
	CGACCGGCGC TCAATGGCGA AATTCCGAGC CAGAGCTATT GGTTGAATGA	50
15	GTAGCGCTGA TGGTTTAGAT AATAACTAGT ATGGGGATAA GGGTGAGCAG	100
	GCGCGCCTTG AGGCAAGAAG CGGGTTAGAG CATCTCTACT TTAAAAGCCA	150
20	AAGCCTATAA CGGTAGCGTC TACATCACGA	180
	(2) INFORMATION FOR SEQ ID :1036:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 142 base pairs	•
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1036:	
	CCAAATACGA TGACATCAAG GAGTCGATCC GTCAGCGTGA CTTGAATACA	50
35	CCACCGCCGA CGACCCGAAA GCCTGATGAG GAGAAGTCCA GAATCAGGAA	100
	CAACGGCGAC ACTCGACTAA CCATTTTAAA CCAATTGGAA CC	142
40	(2) INFORMATION FOR SEQ ID :1037:	
	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 95 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1037:	
	CCACATGGAG TGACCTGGGC CTCTGCAAGA AGCGCCCGAA GCCTGGAGGC	5(
10	TGATTGTCAA AGCAGGGGC AGGACCCGGG GGCAGGAGAA ACCAG	9!
	(2) INFORMATION FOR SEQ ID :1038:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 195 base pairs (B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1038:	
25	ATTTTATTGT AGTAAGAATA ATACATAGAA ATAACATTAA ATAAATATGT	5
	TTGACAAAA CATACACAC TAGTACAGGT AGAACATATA ACTGGTTGAT	10
30	GCTAAATAAC AGATCCAGAT AATTTTCAAT TTGAATTAGC AGCAGGGAGT	15
	CATTGAATGC TATGCCCTTA GAATGGCTTG CAGGCTTTCA CGAGT	19
	(2) INFORMATION FOR SEQ ID :1039:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 218 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		

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	(xi) SEQUENCE	DESCRIPTION:	SEQ	ID	:1039:
--	-----	------------	--------------	-----	----	--------

	GGTTGTCAAG AAAATGAAAG GTAAAGCTCA GAAGGGATAA GGGAAGACAT	50
5	TACAGAATTT ATCATCAAGC AGGAGGTTTT TTCCAGGTTC TAAGATGAGG	100
	TTAAGTTTCT TAACAAAAGA ATAAACAACT GTGACTCTAT CTGTCGGGGG	150
10	AGGGTCTAGA CAGAAAAAAT GAATATACCC CAAAAGGCTG AAAAAAAAAA	200
	CGAGACTTTG ATGGAGAC	218
	(2) INFORMATION FOR SEQ ID :1040:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 318 base pairs	,
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
••	(D) TOPOLOGY: linear	•
20		
.		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1040:	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :1040: TTTATTATTT TGAATGATTT AATGGTTTTC TACACAATTT ACATCACAAC	50
		50
	TTTATTATTT TGAATGATTT AATGGTTTTC TACACAATTT ACATCACAAC	
25	TTTATTATTT TGAATGATTT AATGGTTTTC TACACAATTT ACATCACAAC ATGTAAATTT TAGCAGTAAC ATCTGATTCT AACAGCACAT CATGCTATTC	100
25	TTTATTATTT TGAATGATTT AATGGTTTTC TACACAATTT ACATCACAAC ATGTAAATTT TAGCAGTAAC ATCTGATTCT AACAGCACAT CATGCTATTC CTTTCATAGA GCCTTCAGAG ATTCAATGCT AAACAAATTT CCTTAGTTGG	100 150
25	TTTATTATTT TGAATGATTT AATGGTTTTC TACACAATTT ACATCACAAC ATGTAAATTT TAGCAGTAAC ATCTGATTCT AACAGCACAT CATGCTATTC CTTTCATAGA GCCTTCAGAG ATTCAATGCT AAACAAATTT CCTTAGTTGG CATCAAGGCA CTGATCACTT TAGAGGCTTT TAAGAAATTA TTTAAAGATG	100 150 200

(2) INFORMATION FOR SEQ ID :1041:

(i) SEQUENCE CHARACTERISTICS:

40

(A) LENGTH: 199 base pairs

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	(B) TYPE: nucleic acid	-
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(with GEOURNOR DECOREDATION, and to 1041	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1041:	•
		
	ACGTACCGAG CCGTCGTCGC GGTGCTTGAG CTTGAAGGCG AGATAGCCGA	. 5
10		
	TGCCGCCGAG GCGGTGGACC GCATCACGGT GGCGCTGACG AACGCGAGAT	10
	TCAGCAGCAG CGATGCCATC AATAGCAGCC TGATCGGACG CATGACCGAC	15
15	TCTCCCTGTG AGCGGAGGTT GGGGGGCCGA TCTCCCGCCG GTGCCGGGC	199
	(2) INFORMATION FOR SEQ ID :1042:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 300 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1042:	
	GCCTCTAACA AAACTAGGCT GTCCCGGACC ATGGTAATAG AATTGTTTAC	50
30		
	CTTTATACCA AGAAGGTTGG GAAAGCACCA AAATCTGCAT GTGGTGTGTG	100
•	CCCAGGCAGA CTTCGAGGGG TTCGTGCTGT AAGACCTAAA GTTCTTATAG	150
	The second secon	15,
35	ATTGTCCAAA ACAAAGAAAC ATGTCAGCAG GGCCTATGGT GGTTCCATGT	. 20
		20
	GTGCTAAATG TGTTCGTGAC AGGATCAAGC GTGCTTTCCT TATCGAGGAG	25
• .	THICGAGGAG	250
40	CAGAAAATTC GTTGTGAAAG TGTTGAAGGC ACAAGGCACA ATGTCTGGAA	300
70	(2) INFORMATION FOR CRO TO 1042	
	(2) INFORMATION FOR SEQ ID :1043:	•

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 170 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1043:	
10	GAGACCAGTC TCAAGTGGGA GGGGCTGATG GTGGGAAGCC CTAGAAGAGA	50
	GTCTGGGATG AAGCGGCCTC CTCCCTGTCT TGCCCTCCAA AATTGAGTCT	100
15	GGCCTGATTC CTTTGAGGAG CAAATTTTAC AATCATCCCT CACCCTAACA	150
	CACGGTGAAA CTGGAAAACC	170
20	(2) INFORMATION FOR SEQ ID :1044:	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 260 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1044:	· ,
30	GGCCCCCCT GGGGACTGCT GGTTTCCAGG GGCCACCCCC CCTCATCCAA	50
	AAGAAGAATC AAGTTTTGTT TTCCTGTGGT TCCCTTGCTC TCCCCGGCCT	100
35	CACCTCGAGC TTCCACTTGG GCCCTTTCCC ATGCTTCTAC TTGAGCCCCG	150
	CCTGCCTCAC CGTCTGCCTC ACCGCCACCT CCTGCTCAGA GTGAGTGCAT	200
40	GCATGCCAGA CAGATACACA TATACATACA CACACACACA CACACCCTAT	250
40	TTTTTTTT	260

	(2) INFORMATION FOR SEQ ID :1045:	•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 164 base pairs	
· 5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	-
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1045:	
	AAATCTATAA TTTTAAGGGC TTAACCTGTG ACTTTAATAA GCTGGAACAG	50
15	TCCACTGAAT GGGTATAATG AATTGCAGTA TATACGTATG ATCGCTTTTT	100
	AAGTGATTAT CTTTTCTTTC GTTAAGTCAT GTAAATTCAT AAATTTTTTG	150
	GCACTGATGT GTTG	164
20		i
	(2) INFORMATION FOR SEQ ID :1046:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 130 base pairs	•
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1046:	
	TCCCTCCTTT CCGAACTGGA GCCCCATCCT CTCCAGAGTA TCCAGGGCTT	50
35	CTTCACTCCC GGGTACCTGC CCTTCGGCCC CTTTTCACCA CAGCTGTGCT	100
	ACTGTCAACC AGTCTTTGCT GCATAGGCAT	130
40	(2) INFORMATION FOR SEQ ID :1047:	
	(i) SEQUENCE CHARACTERISTICS:	·

(A) LENGTH: 285 base pairs

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
•		
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1047:	
	GCTTAACTGG AAATTGGAAG GGAAAAGAAG AAGAAACAAT GTAATGTAGC	50
10	AGTGGAAGCA AAATTCTCAC AATGAATAGC AGTCTTTCCA GCTTCTTTGA	100
	CACGGATTTT CTCATTAGAA AAGACGACTC TCCTGAACTA GGGATGAGTG	150
15	TGAATCTCCA TTCGAGGAAG GGGAAGAAGA GCTCGGAGGG TGACAGCCTC	200
	CCCCTGAGAG AGCCAGTTGC GTTCATGATT TTGATTCCTT CTTCCTCCTG	250
	ATGAAGTATC TGCCCAGGAG CCCAGGAGCA GAATA	285
20	(2) INFORMATION FOR SEQ ID :1048:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 233 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1048:	
	TAAAACTGAC CTAGAAGCTA TCAGCAACCA CAAAGAGACA GAAGAAAAGA	- 50
35	CTGCTTCTGA GGCTCTCTCA TGGAACCTAC TGATGATGGT AATACCACGC	100
	CCAGAAATAA CGGAGTCGAT GATGATGGCA ATGATGACGG CGATGATGAC	150
	GGCACTGATG ACCCCAGGCA CAGCGCGAGT GATGACTACT CAACACGAGC	. 20
40	CAGGTCTTTC TGAAGGCCGA GAGAGCTAAA TAA	23

150

40

532

	(2) INFORMATION FOR SEQ ID :1049:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 293 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
•	(D) TOPOLOGY: linear	•
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1049:	
		50
	ACTITAATIT ATTICGGATG CCGGAATTGT GCCCAGAGTT TCTCCTGAGC	50
*		
15	TTGATTCCAT AGCTAGCAGC TTCAATCCTT CGCAGCTGCG GTGCGTTCTG	100
		150
	AACTCTGAGC TGTCCTTTCC TGACAGGCAC TTTCCATAGC ATCTGCCTGC	150
	TTAATTCCTC ACGACTCAGA AATGTTAACG GCACTGTCGA GTGCTGTGAT	200
20	TIMETICETE ACCHETCHON ANTOTIANES CONCIGIOSIS CIGOTOTOS	200
20	CATTTTGCTT TAACTATGTA AAGCTTTATG CCCTTCGAGA AGCTTATTTC	250
	GAGATAGAGC TAGAGAAGAA AAGCAGCAAA ATTCGGTCGA TAC	293
25	(2) INFORMATION FOR SEQ ID :1050:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 219 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :1050:	
	AAAACTATAC TTTCATTCAA AAGAAGAGCT GAATTGATGC TTGAGTTACA	50

GCACAAATCT ATTATTAGTG AATGAAGTAT ATTCTTGGCA GATAAATACC

AGATCAAAAG TCCTGTTTCA GTAATTTGAT TAAACTGTAG AATACTAAAA

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	AATAAGTTAT TTCTACAGAA ATCTTTGAAG GGAGCAAAAA ATCAAATCAC	200
	AGTATATACC TAATGGCTA	219
5	(2) INFORMATION FOR SEQ ID :1051:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 70 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :1051:	
	AGCGACCGGC GCTCAAGTGG AATTCCGTGC AGTGTTTGAT TTTTCGTTTT	50
20	TGCGATAGTT TACTGAGAAC	70
	(2) INFORMATION FOR SEQ ID :1052:	•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 204 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1052:	·
	ATTCCTGACC TGTGATATCG GCCATTAGAG CCTTTCAAGA ATGGTACCTC	50
35	CTGCCGATGA TTTTTTTAA AGCCTTAATG AAGAGAGTGT CCTCTGACTC	100
	CTTCCAGAGA AGATAGGATG TGAGTGAGTA AGTTATGTAT AATAATTTTA	150
40	TCTCAAAATA ACCACGTCCT TGATACCATT CCCTGTATAC CAAGGAAGGG	200
	TATT	20

	(2) INFORMATION FOR SEQ ID :1053:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 252 base pairs	
5	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	-
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1053:	
	ACTAAACACA GCACTGAGAA TTCTCCTCTT TTTACAAAAA TGACAGACTT	50
15	AAGAGAGGCC ATGGAACAGA TTAAGAGAAT TAACACGGAG AGGAGAGCAG	100
•	AGGTATAAAA GGTATCCAAG AAAAGTAAAA CATACAAAGG CAATTCAAAT	150
20	CARAGTGAGC ACTGCCTATA TACAGACAGA AAGCGAGTCC TCTATGAAAC	200
	CATACCCGAC AGAAAGTACC GGAATACCAC CGACACTGAT GTCTTCCAAA	250
	CG	252
25	(2) INFORMATION FOR SEQ ID :1054:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 212 base pairs	
•	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		٠
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :1054:	•
.*	AAATCAGGAA ATTGTACATG TTAACAAAAT AGTATAACCA TGCATACATA	50
40	CATCTGCTTA TTAAACACTG AAGTAAAAGA ACTAATCCAG TTTGCAGTCT	100

TTAGAGGTGT TTAGTATTTC ACTCCGTTCT GATGGAAGCA CTTTGAATGC

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•	TTGCATGGAG ACATAAAACT GAATATTTAA TTGACAATAG ATCATGCGCC	200
·	TGTATTTATA AA	212
5	(2) INFORMATION FOR SEQ ID :1055:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 152 base pairs	
	(B) TYPE: nucleic acid	•
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
	(5) 2505550 221055	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :1055:	
	ATAAACTGTG CTAACTAAAG TTTTTATTTC ATCAATATAA AAGCTGTAAA	50
	AAAACTGAGG AGAAAGCAGT TGCCAAAAAG ATGAAAGAAA AACAACATAG	100
20	AAAACCTTTA AAACAGGCAA AAGTCAGTTC ATAATAAAGT AACTCATCTC	150
	AC	152
25	(2) INFORMATION FOR SEQ ID :1056:	
	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 205 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :1056:	
	AACAGATCCT CAGTTTCTCT GGAGACACCC CCAATTCTCG GGTGAGTGTT	50
	GAAACCTGAC AACTGACTGT TAGCCTTGTC ATCATCCTCA TTGGAGATGG	.100
40		

	GGCAACCATC AGAGCCTGTC TGGAAACAGC CTGCTGCCTT TGCTAGGGGG	200
	GCAAA	205
5	(2) INFORMATION FOR SEQ ID :1057:	
	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 174 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
•		
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :1057:	
•	GAGAGAAGAG CGCTTTTCTG GGCTCTTGGT TACTCCGTCA GAGACTTTGC	50 '.
•		100
	CCTTTGTCTG TTTAAATACA CTGGGAGCCA GAGCTGATTC CCCACCTGCT	100
20		. 150
	GCTGTGGTTT TCCGCTTAAC ACAGGAGAGA TGAGTTGGTC TGGTATATTT	. 150
	GATAGCAGGT TTTAAAATGA ATCC	174
	GATAGCAGGI IIIAAAAIGA AICC	4 /¬
25	(2) INFORMATION FOR SEQ ID :1058:	
25	(2) INFORMATION TON DEG 15 .1000.	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 125 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(5) 10102001. 12.1021	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :1058:	
33	(XI) Sugarnar productions bug in second	
	TATTTGATGG TCCATAAGAC TTTGTCAAAT GTAAACCTAC AGTTTGATAA	5
40	GCTTTAAAAT ACCATGTTGA CAGCATTTTG AATTGTTTCA TAGACGTACT	10
	TATTTAACTG ATGCGAACAT TCACA	12

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(2)	INFORMATION	FOR	SEQ	ID	:1059:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 205 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID :1059:

20	AAATA					205
20	ACTATAAAGA	AAAAAGGTTC	ATCAATTCAA	AAAAAAATCC	TGATTCTTCA	200
	GTTGAAAACT	TAGGTTTGTT	CCTTCTAAAA	TTTCTAAGTC	CTTCATTATG	150
15	TAGTATATTA	AACTCTTTTG	AAATAGATAA	CAAAAGCACC	ATGGGAGTCC	100
	TTATCTTACA	ATTCTACTTC	CCAGCATCCT	GAAATTTTCA	AATACTGTCT	50

(2) INFORMATION FOR SEQ ID :1060:

25

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 249 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

. 30

(xi) SEQUENCE DESCRIPTION: SEQ ID :1060:

					•	
35	ATCTCACAGA	TTCTTTTCA	CAGATTCATT	CATGTTGAGT	GAAAGAAGCC	50
	AGATGCAAGA	GTCCACACCA	CATGATTCTG	TTTCTATACA	ACTTAATTTG	100
	AAAACTAAGO	AATACTTACA	GAAGTGAGAA	TAGTAGTTGT	CTCAGGGTAG	150
40	GTGAGTGTCA	TGAAGGGAAT	CTTATACGTT	TGCTAAAAAT	GTTTTATAAT	200

	ACTTGGATTT TGGGTCTA1 GCTGGCAGG GGAAGGGFTA CATTGCAAA	249
	(2) INFORMATION FOR SEQ ID :1061:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 200 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :1061:	
15	TAGCACATTG CATCCCAAGA GCTGTAGTCA AAATCCTCAA AATCTGATGA	50
	AAATGGCATA CTACACTAAG GAGGATTTTT TGGGCATTTT CCATTCATAT	100
20	GCAGAATCAG TGGTTGAAAA AGGAGAAAGA GAGATTTTCT TTACAAAAGC	150
	TCCTGACCCC ATTAACATCT TATCTATAAA TCTGATATGT TCCTGACTCC	200
•	(2) INFORMATION FOR SEQ ID :1062:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 200 base pairs	
	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1062:	
35	GCGCACAGCT GAGAATCTCC GGTCTTGTCT CACTTTGGAC TGGGACAGTG	50
	GATGCCCATC TAAAAGTTAA GTGTCATTTC TTTTTAGATG TTTTACCTTT	100
40	ACAGCCATAG CTTGATTGCT CAGAGAAATA TGCAGAAGGC AGGATCAAAG	150
	ACACAGGA GTCCTTTCTT TTGAAATGGC CACGTGCCAT TGTCTTTCCT	20

	(2) INFORMATION FOR SEQ ID :1063:	
	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 246 base pairs	
5	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		•
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1063:	
	TATCAAATCA TGAGTTGAAA GATTTTGACT ATTGAAAACC AAATTCTAGA	50
15	ACTTACTATC AGTATTCTTA TTTTCAAAGG AAATAATTTT CTAAATATTT	100
	GATTTTCAGA ATCAGTTTTT TAATAGTAAA GTTAACATAC CATATAGATT	150
20	TTTTTTTACT TTTATATTCT ACTCTGAAGT TATTTTATGC TTTTCTTATC	200
	AAATTCAAAT CTCAAAATCA CAGCTCTGAA TCTTAGAGTA TCATAA	246
	(2) INFORMATION FOR SEQ ID :1064:	
25	(i) SEQUENCE CHARACTERISTICS:	
٠.	(A) LENGTH: 170 base pairs	
	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1064:	-
35	CCCTCATGTG CCAGTTCGGT CTGCCTGCAG AGGCTGTGGA GGCCGCCAAC	50
	AAGGGCGAGT GGGAAGCGTT TGCAAAGCCA TGCAGAACAA CGCGCAAGTT	100
40	TGAGCAGAAA GAGGGCGACA CGAAGGACAA GAAGGACGAA GAGGAGGACA	150
	TGGAGCCTGG ACTGAGCCAC	170

(2) INFORMATION FO SEQ ID :1065:

	,	
	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 171 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(2)	
		•
10		
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1065:	
	(XI) DEPOSITED DESCRIPTION DE LE TESTE	
	CTCTCCCCCA CAGGTTCTCA GCAGTTACTA AGATGTCCCC TGATTTCATT	5
15	GACCTCTGTG TGTCTTCAGT CCTTGACCCT TTAAGGCTCC CTGGTGCCAG	10
	AATGTCTGCA GCTGTAGGAT CAAAGACCCT TGGGGGAAAA ATCCATTCTC	15
20	AAAAGAGAGG AAGATGGGGT G	17
20	(2) INFORMATION FOR SEQ ID :1066:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 201 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1066:	
	GAGTCTATAT CCCTTACTCA GTGCAGTTCT CAAAGTCCTT TGTATGTCGT	5
35	ACAGGATCAC ATCTGTACAT ATCACACTCT TGTGGGGTAA GCCCAGAAGC	10
	TCATACACAG CTTCATGGGT TTACTTTCCC AAGCACTTCC TCCCTCCCTG	19
40	CAATATCTCC CCAGCACTTT CTGCTTCCTA TCAGCTTTCC CCTTTTTCAA	20
70		,

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(2) INFORMATION FOR SEQ ID :1067:

	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 151 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1067:	
	ATCAACCGGA GGTGAAATGA AATACCGTCA ACCTGTGCAT GAGTTTGTGT	50
15	GAACTGAATG TGTGTGCATA CACATAAGCA TGTGTGCGAG CGCAAATGTG	100
	GCGTCTCCAC AGCATGCGCA ATCCATGAGT CTGTTTCTAA CGCGCGCGCG	150
	c	151
20		151
	(2) INFORMATION FOR SEQ ID :1068:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 273 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
•	·	4
.30	·	·
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1068:	
	ACTGTGTCAT GTCAGGTTAG ATCTGAATCT CTAGGAGAAT AGCTTTTTTG	50
35	ATCTGTTTGC TCCTTTGAGT CTCCCTTTTA CTTTACAACT AGAAAACCAA	100
	TCGCATACTT CACTTCTATC GCTTCCAGAT ATGGCATATT TTTCTTAGGC	150
	TACCGTTGAA ATTTAGCATA ATATTTCTCC CTTACCTTTA CGTCCTTTTA	200
40	AAAAAATAGG ACTATAGTAA GTCCTCCGTG TCGGTGGCAT GTTTTTGGAA	250

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	ACTGACTTTA AAGAAAACAT ACA	273
	(2) INFORMATION FOR SEQ ID :1069:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 189 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
10		. •
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1069:	•
15	CAATCTTGCT TATAAAATAA GAACACCTTT CAATTAAGTG AGTGGGTCAT	50
	TCCTGGTGCA ATTGTGATTT TTTTTTAGCC AAAATGAATG GCAAACTCTA	100
•	TTTAGAGCAA AGTAAGTATT AGAAAACCCT AGGAACTCTT AATCAACGT	150
20	TATTACACTT TTATAAAGGC AAACTACGCG AAAGAGCCC	189
	(2) INFORMATION FOR SEQ ID :1070:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 280 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1070:	
35	TTTATTCCAC TGGAGAAAGG GGATTGAAAA TCAGTTAGAA CCAATGTAT	r 50
	TCTTGCCCCA CGGAACACTA TTCCTATAAG ACAGCTGAAA GAAGCTGCCC	3 100
40	TGAGGAGCTC AGCTCCAAAC ACAGGATCAG CACCTCGCAT AGGAATTCCC	150
	ATGAATCACG ACTTCTCATC CCGTTTTATC AGAGTGCATA TACGTCCTA	200

•	TTAAGGAAAA GTAAAACAGT CATTTACGAA AGAAAGTCAA TCTGTATCCT	250
	AAGCATTTTA ATAAAAAGTC AGAAGGAATT	280
5	(2) INFORMATION FOR SEQ ID :1071:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 193 base pairs	
	(B) TYPE: nucleic acid	•
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
•		
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :1071:	
	AGAACCGAAG CCTGCAGAGA GGCCATTCTG ACAGGCTGGG AAATGTAGCC	50
	TACCGCCAGA AGCTAGAAGC AAGCACTTCC TCCTAACCGA GTTTTTGAAA	100
20	GACTAAGGGA AAGAGAATAG AGAAGGGATA TTCCCATCTA CCGGGGAAAA	150
	GATGCGCAGT AACAAACCAT CTAGGGAGAC AGCCTTCTAA CAG	193
25	(2) INFORMATION FOR SEQ ID :1072:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 175 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :1072:	
	AAAGCACCTT CCCCTCGCTG AGCTCCAGGG GGCCCAGATA GGCCACGCGC	50
	AGCTCCAGCA TCTTGGAGAG CTGCACGTCA TCTGCCGCGT CGTAATCCTC	100
40		150

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	TCAAGTTCCC CTCGAGATTC ACATC	17
	(2) INFORMATION FOR SEQ ID :1073:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 339 base pairs	
	(B) TYPE: nucleic acid	٠,
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUE CE DESCRIPTION: SEQ ID :1073:	
15	AGTGCCCTAC TCTTTTCCCA AGAAGGGTCA AAGCCTACAA TATCATCAGG	50
	GGGCATGAAG CACATTAATT TGCAGTGGCT GCTTCATATG AGGAGGTATG	100
20	GTGGACAGGC TAATTTTTCC TTGAAAATGT GGCTTCTTCA ACTCCTTTCA	150
	AATTTAGGAT GGAATACTTC CTGAAATAAA AACTGGGCTT TATGCAGGAT TCTCTTTGAA AATTCTTGTA TGTCCAGAAC AAAAGATAAA ACTAATTGTA	200
25		250
25	TTCCTCACAT TCACAATCCC CATTGGTCTG AAGTCACGTG ACACAGAGCA	30
	TCTATATAGC ACATAGTGTT TAAAGACTAA TGAATGCAA	33
30	(2) INFORMATION FOR SEQ ID :1074:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 172 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :1074:	
40		

ATTAATTATG CGGTCCTCCT CCTGGCAGCT GGACACCAGT TTGAATCTTC

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	CTTTGAGCTC CGGAAAGTTG GTAATTACAA CTTGATATTT CTACATGGAA	100
	ATCAAGAAAC TCGGACCCAA CTTGGTGCAA AGACGGATCT CCGCCGATTC	. 150
5	TGACGGCTCT CCAGGTTTTG TC	172
	(2) INFORMATION FOR SEQ ID :1075:	
	(i) SEQUENCE CHARACTERISTICS:	٠.
10	(A) LENGTH: 299 base pairs	,
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1075:	
	AGAGTAGGAA GAGGGAGGGG AACAGGCATC TAAGATAGAC TTTCTCCATC	50
20		
	TGTTGGGAGC CTGGGCAAGT AGGAAAGAAG CCTTTTTCAT ACACTTCAGT	100
		• "
	CGTATGACTG AGCTGCTTGG CAGGGCACTG GAAACGACGA ACTCGCGCAG	150
25	CCTGCAAATG AGACCACTCT CATTTCTCAG TTTCGATTTG ATTCACTCAC	200
•	TAGTAGTTAG GTAAATACGA GCTCTATGTG ACTCAAGGAA TGTCAGGCTG	250
•	CCCCACCTCC CAAAAACAACAACAAAAAAAAAAAAAAA	200
30	GGGCAGGTGG CAAAAGCTAC AGTGATCGAA ATTCACGTTG CTACTGATG	299
. 30	(2) INFORMATION FOR SEQ ID :1076:	
	(2) INFORMATION FOR SEQ ID :1070:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 283 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(-,	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :1076:

	GCCCTCATCG GCGATACTGG AGGTTCGCTT TCTCAACCCT GTGGGCTTCA	50
	CCCCAGACAC GCCCTGAATC GTTTCATGTT CCAGCATGCC TGAGACAATC	100
5	ATCGACTGAA GGATGTTCTC TAACACCCGC ACGAGCTGCC GGCAGATCTG	150
	AATGCCCAAG TCACTCAGCA CCTGCCGATA CTCAGCCAGG TCAAAATCGG	200
10	CGAGGTAGTG CTCATGCCTG GCGAGACGTG TTGTGCTTAA TGAAGCCCTA	250
10	TCATTCGAAG TATTGCTATG AGCAGTGCGA AAA	283
	(2) INFORMATION FOR SEQ ID :1077:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 297 base pairs	
•	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
20	(b) Torobodi. Timear	
20		•
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1077:	
25	ACCARTCARG TACACTARAT TAGRATATTT TTARAGTATG TARCATTCCC	50
	AGTTTCAGCC ACAATTTAGC CAAGAATAAG ATAAAAACTC GAATAAGAAG	100
30	TAAGTAGCAT AAATCAGTAT TTAACCTAAA ATGACATATT AGAAACAGAA	150
30	GATATTACGT TATGCTCAGT AAATAATCAA GAGATGGCAT CGCGTAAGAA	200
	GGAGCCCTAG ACTGAAAGTC AAGACATCTG AATTTCAGGC TGGAAAACTA	250
35	TCAGTATGAT CTAAGCCTCA GTTCTCTNGT CTGCAAAATG AAAGCAC	297
• .	(2) INFORMATION FOR SEQ ID :1078:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 291 base pairs	
	- Carlotte and the Carlotte	•
	(B) TYPE: nucleic acid	

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(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :1078:	
	AATCTTTTAA TCAATCGAAA CCTTAATAAT TAGGACTGAT AATAGTGATC	50
10	AGTGATTGAA CCTTTATTAT TTACCAGCTA ATATAGTAGG CCCATAAATA	100
10	GGTTATATCA TTCGTAGTCA CAATAACCAC ATACATCACA CACCATGACG	150
	TAGCGCTACT ACCCATACCT GCTAGCAGTC AAGGTTCAGA TAATCATAAC	200
15	ACGCCCAACA TCTCATTGAT AGTGAGTTAT CCAAACAGGA ACAATCTCAA	250
	GTTTATATCT AAAGCCCATG TTCTTTTGCT TAATATTAGA G	291
	(2) INFORMATION FOR SEO ID :1079:	
20	(-)	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 136 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1079:	
	AGTCACAGCC CCTATACTCC CTCTACACAT TAACCACAAC ATAAGCGGGG	50
	CTCACTCACC CACCACATTA ACACCACGAA ACGGGTAATC TAACACGAGA	100
35	AAACACCCTA ACGTTCATAC ACCCCATACA CCATTA	136
	(2) INFORMATION FOR SEQ ID :1080:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 300 base pairs	
	(B) TYPE: nucleic acid	

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

. 5	(xi) SEQUENCE DESCRIPTION: SEQ ID :1080:	٠.
	CCAAGGTCGC CTGTGTGCTA GTCACGACCA TTAGGATCCG AAGAAGAGAT	50
10	GATGACTACC CTAAAAGTAA GGTCTGTGAA CAGCCTGTAA TGGGACGTGA	100
10	GCTGCGGTAT TAAAAAAATC AAGAATGGAA GCGTTCCTCA ATTGTCGTTG	150
	AGAATCATAC CAACACGGCA GATGCAACCA TGAAAAACGC AGCTGCGTAT	200
15	CGCGCGTTTT TCATGGTTCG CATCTGCCGT GTATGCAATG ATTCTCAACA	250
	CACATTGGAG TCACGCGGCC TGCGTAAGAG TATGAAGGTC TTCCTGTAAA	300
20	(2) INFORMATION FOR SEQ ID :1081:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 219 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1081:	
	GTTAATGGTT TTTTCATACA TATGAGACTG AGCGGTCAAA GTTTTACTAA	50
	AGTCTTTATG ATCTTTAATT AATACTCCAA GACATCCGAG TTTGGCAGAT	100
35	ATTGGATGAG ATTTGTTTTG CTCCTTACTT TCTTTGTATA CAGCCAAGCC	150
	TGAAAATCTC TAGACATTTG CTGAAATTGA TGAGAGCATG CACAGGACGA	200
40	CTGAAGGTGC TGGACATGA	219

(2) INFORMATION FOR SEQ ID :1082:

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(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 360 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1082:	
10	ATTTTGGGAA AGTGAGCATG AAGAAGGGAC TCAGAGCTGC CAGGTACCCG	5
	AGTCTCAGGC TCTGACATCT CTTGGGGCCC CCTTCTGCCA CAACTTCTTG	10
15	CCACTTCACG GACTTGAATT ATGTCCCGCG CCTAAAAAAA AGATTGGCCT	1,5
	GCAGCACAGG CGTGTATCCT CTCCAAAAAG CTGCTGCTCA TTTCTGGCCC	20
20	CATCTGCTGC TATCTTTGCC AGTCAGCCAT CACAGTTTGG CATCATCAGA	25
20	GTCTCAGCTA GAGGGAGCGT GTCATTTCTG CCTTAGTGGT TTGCCTGCGA	30
	CCTGACCAGG GCAAGACCAG CTGGGATGTC AAGTGACATT TTGGGAACTT	35
25	GTCGGAAGTT	36
	(2) INFORMATION FOR SEQ ID :1083:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 250 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1083:	
40	CATACATATG AGACTGAGCG GATCAAAGTT TTACTACAAG TCTTTATGAT	. 5
40	CTTTCAATTA AATACACTCC AAGACATCGA GTTTGGCAGA TATTGCGCCC	10

	GCCGTTTTGC TCTTCTTATC TTTGTATCCA GCCAAGCCTG AAAAGTCTCT	150
	AGACATTTGC TTGAAATTTG ATGAGAGCTT GCACAGGCCG ACTGAAGGAT	200
, 5	GCCGGACATG ATTCTCTGCT TTCTGGTTCA ACAAAAAAA AAAGTTCCAG	250
	(2) INFORMATION FOR SEQ ID :1084:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 261 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1084:	
•	TNCTAGATAC NTCCCTCTGT CTCACATTCA TAGTGTGTTC TTGTCTAGTG	50
20	TATGAAGTCT CACNCAAGGA AAGTGTNCAG GCAGAGTTTG GGGAGAGTGA	100
	AAAAAGTGAA TGGCCTATAT NTGCTCTNTT GGGTGNTCCA NCCATTATTG	150
25	GGGTGAACCC TTTCAGCTTT TTCCTAAAAA TTTGAAAAGA NTTTTTAAA	200
	AAATTAAAAA GAGGATTTTT AAAAGGAATA TCTTGTTCAA AATTTNTTAA	250
	GTTTTAATAG G	261
30	(2) INFORMATION FOR SEQ ID :1085:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 260 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :1085:

	GCAATCCATA AGTGTCCTTA TCTACAAAGT GAAAAGTTGG ACAAGATATT	50
	CTTCATGATC TTTTTCGATT TTAAAATGTC ATGCAATTTT AGAGAAAAGC	100
5	TGAAGGGTCA CCCAATATGG CGCGACACCA AAAGACAAAT ACGAGGACAA	150
	TCACTTTTC ACTTTCCGCA AACTATGCCT GGACACTTCC TTGGCGAGAC	200
•	TTANTACACC AGACAAGAAC ACACTATGAA TGCGAGACAG AGGGAGACAG	250
10	AGGCGAAATA	260
	(2) INFORMATION FOR SEQ ID :1086:	
15	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 213 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(with Chourney Decontements of the 1986)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1086:	
25	AAGACGTGGA TTTGCTGGAA GACACGGATT TCCTGGAAGA CCTGGATTTT	50
•	TCGGAAGCTA TGGATTTGAG GGAAGACAAG GATTTTCTGG AAGACATGGA	100
30	TAATCTGGAA GACATGACTT TGTCGGAAGA CGTGGACTTG CCGGAAGACA	150
	CGAATTTCCT GGAAGACCCG GATTTTTCGG AAGCTATAGA TTTAAGGGAA	200
	GACAAGACGG ACT	213
35	(2) INFORMATION FOR SEQ ID :1087:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 256 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID .: 1087:

5	TCCCAGGCAC CCGCTGAATT TCTGAGGCCT TGCTTAAAGC TCAGAAGTGG	50
	TTTAGGCATT TGGAAAATCT GGTTCACATC ATAAAGAACT TGATTTGAAA	100
	TGTTTTCTAT AGAAACAAGT GCTAAGTGTA CCATATTATA CTCGACGTCG	150
10	ATCATTTCTC AGTCCTATTT CTCAGTTCTA TTATTTGAGA ACCTAGTCAG	200
	TTCTTTAAGA TTATAACTGG TCCTACATCA AAATAATAGA AATTACGTTT	250
15	ТТТТТ	256
	(2) INFORMATION FOR SEQ ID :1088:	
	(i) SEQUENCE CHARACTERISTICS:	,
	(A) LENGTH: 264 base pairs	
20	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
•		
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1088:	
	TTGCTTAGAA CGGAGCTAGC AAGACAAAAA TACTTCAGTT GGCATCTCCC	50
30	TTAAAGCACA TCCCCAAACG CGGGTCCTGG CCCCAGACAG GGAGACCAGG	100
	GCTCTGACAG TGACAGGTTC TTCCCTCTGA AAAAAGAATA GAAGAGGAGC	150
35	TCCTCCCTAA CCCACAGATT CCCAGGGCAG ACCCTGGGAG GAGGTGCTGA	200
	AACACAGAAG AGAGTGTGTC TTCCCCAACC TCTACCAGAC AGTAGAGAAA	250
	CTGAGGCGAG AGGC	264
40	(2) INFORMATION FOR SEC ID .1089.	

(i) SEQUENCE CHARACTERISTICS:

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(A) LENGTH: 157 base pairs(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1089:	-
. 10	CACCOCA A M.	
10	GACCTGGAAT TTGTTTTCGT CTGTTCAGTA GACTCCGATT TCAGAATATG	50
	TCGGAATTTC AGACTCCGGA ACTTTTGAGA ATGTCATTAC AGGAACTTTG	100
	TTTACATACC GAGCTGTTAG CCCCAGTCAC TGGGTCCGAA ATTACGCCGA	150
15	m. 000.	
	TACCGAC	157
	(2) INFORMATION FOR SEQ ID :1090:	
·		
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 366 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
2.5	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1090:	
30	GCATATACCA AAAAAGGACA AACAGATAGA AGAGTCATCT CAGTGTGTAA	50
	CGAGGAAAAG ATTTATCTCC CATCCTCTGA TCCTCCATAT GATATCTGAT	100
	AGCGAAGATG ACAATAACCC CTTGACTCTT CACGAAAACT CGATGAGAGA	150
35		100
	GAAACTTGAA AAGTCAGAAA ATAAGTTCAT ACCGCAATTA ACCTTTTGGT	200
	CAAGTAATGG AAACTTTTGA CTACTAGTGT AAGTCAAAAG ACAAAGGACT	250
40	CCAGCAAGAT GAGAGATTTC TCTATTTTGT AACGAGTAGT CCACCGATCG	300
	TCATCAAAGA GAGAGAATGA ACAACTACGA AAGTTTAAGG GAAAAAAAAA	350
		220

AAAAAACATA GATGTT

	(2) INFORMATION FOR SEQ ID :1091:	
. 5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 305 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	.=
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1091:	
15	GGTCTGAATC ATGAAAAAGC CCATAAGAGA GATACAGTGA CTCCAGTTTC	50
	AATCATATTA CAGGAGATGA ATCTGTTGCT CTCCCATTTT GCTCTTGTCA	100
20	CACCATATGA AGACATCAAA AAACACTTAA GGATTCGAGA AAGAGAACAT	150
	CTTTTGTTAA AGAAGAAAT AAGATTTTGG AAGAAAAGT AATAGCAAAT	200
	TTGAAGAAGA AACAAGTTAC GTAGGGACGA GAACAAGTAA ATAAGGCCTA	250
25	TCATGCATAT CGAGAGGTTT ACATTGATAG AGATAATTTG AAGAGCAAAT	300
	GGACA	309
	(2) INFORMATION FOR SEQ ID :1092:	
30		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 237 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :1092:	
••	AAATGGAAGT TGAACTGAGT GTGGTTTCCA GTACAGGGCA TCTGGCCACC	50

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	TTCACCTCAG TAAATACTGC TGATCGACTC TCTCTGGCTC TGGCTGTCCT	100
	GCCAGAGACA GCCAAACACA GGAGACATGA CAAATTACTA TCATCTTTTG	150
5	CTTCTTTATT TTTATTATTA TTATTTTTCT TTTTGTGGAG AACAGCGTCT	200
	TGCTGTATTG CCCAGCCTGA TCTCAAACTC CTGGGCG	237
	(2) INFORMATION FOR SEQ ID :1093:	
10		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 420 base pairs	
	(B) TYPE: nucleic acid	
·	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1093:	
20		
	AGAAATTTAT TGCCTCACAG TTCTGGAGCC TGGAAGTGCA ATATCAAGGT	50
		·
	GGAGACAGGG TTGGTTTCCT CTGGAGGCCA TAATGAAAGC ATCTGTTCCA	100
25	GGTCTCTGTC CTTGGCTTGT AGAAACACGC ATTCTTCTGG TGGATCCACA	150
	CAGTCTTCTC CATGTGTATC CTTCCTTCAG TTTCCCTTAT AGGACACCAG	200
	TGATGTCAGA TTAGGGATCG AACCCAACAA CCTCATTTGA AGTTACTCAC	250
30		
	CTGTTTGAAA ACCCTATGTC CAAATACAGT TATAGTGTAA GGAACTAGGA	300
	CTTAGGGCTT ACAAATATGG AGTGGGGCAT CATCCAGACC ATACCATTTA	350
35	AATTGCAGGG TTTCTCTCCA ATGTGAGTTA CATACACAC TTAAGGTTTG	400
	TGGGATTCAG AAAGGTATAC	420
	(2) INFORMATION FOR SEC ID : 1094:	

40

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 192 base pairs

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1094:	
	GTTTCTTGGG TAACCTCCCC TCCTTAATCC TTCTGGCATA GGCAGACTCA	, 50
10		,
	CAGCAGGTAC CCAGTAGAAG GTAAGGTGGC TGATCATTTT TCCATAGGAG	100
	GTCTCCATGG CACACAGGGT AGAAAGTGCA TTCTGTGAAT TAGAGGCAGC	150
:		
15	AGAGCATGGC AGCTAATGGA AACTGGCTCT GGGAGGTCAA AT	19:
		•
	(2) INFORMATION FOR SEQ ID :1095:	
•		٠
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 228 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
23		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1095:	
	AGAGAGCTTA ATAAGACCTA ACTACAGGCA AACCTGACTG GAACGTGAGT	5
30		
	ATCTGTGGTC TGGTGTGGAA ATAGCTCTCT AGCCCCATCT CCCTCCCC	10
:		
	ATTGTCCACC CCCATCCTCC TTACCACGAA ACACATTTTT CACCAGCATT	15
35	GCCAAACCAC TTGGGATTCC TGCGCATGGC TTTGCTTAGT TTGCTCTTCT	20
	GCTTCTTGGA TACCTCCTTC AGGAAATC	22
	(2) INFORMATION FOR SEQ ID :1096:	
40		
	(i) SEOUENCE CHARACTERISTICS:	

(A) LENGTH: 198 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	,
_		•
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1096:	
••	ATTTTTTATG GAAAAAGGGG GATAATGCAA AATAGCAAAA ATTGTAAACA	50
10	AAGTTAAAGA TTATCTTCAT CTAAACCTTA AGCTGACAAT TTAAAACACC	100
	TTGTGCATAA TGCAGAAAA AACTGTCCGT TTGACTTCAC TTTCATTCAC	15
15	ACTGCTCCCT ACGCATGAGA AAGACCAGAT GTCTGGTTTC AGAGTATT	198
	(2) INFORMATION FOR SEQ ID :1097:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 118 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	. •
1 E		
25		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :1097:	
30	TAGAGAGAG TTGATATATG AAGATAGGGT GGACAGGACT GTGAAGGAGG	50
30	CTGAAGAAAA ACTGACTGAA GTGTCACAGT TTTTTTCTAC AAAACTGTGA	100
	CACTTCAGTC AGTTTTTC	118
35	(2) INFORMATION FOR SEQ ID :1098:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 138 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) MODOLOGY, lines	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :1098:	
_	AAAACTGACT AAAGTCANTG TGTAATACGA AAACCGAACA CTCCAGCAGT	50
5	CCTATTTAT NTNTTCCAAC CTAGNNCACC CAGGTGACGC NNGGGACTCG	10
	TCNCAGGTGT TTNGNACTTG CCGCCCGACN GGCNAAGG	13
10	(2) INFORMATION FOR SEQ ID :1099:	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 151 base pairs	
	(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :1099:	
	ACTCCACCAC TGGGNCCGCC ATGTTTTGGG TNGGNGCAAT GCGCTGTCTG	5
25	TGAGCGCCAN TCTAATTGTA TTNGGACTGC ACGGGTCCGT ACACTGACTG	10
25	ACACTGGGCT ACCTCGCCCG AAAATGNGAA CACCGCTCAA TATCGNTGCG	15
	G	15
30	(2) INFORMATION FOR SEQ ID :1100:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 201 base pairs	
	(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEO ID :1100:	

TAGCAATAGG CTATAACATA AGCCGAGGTA TAGGCTACAC TAGCTAGGTT

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	CGTGTAAGTA CACTCTATAT TGGCACAACA TAAAATTAAC TAGTGACGCA	100
	TTTCTCAGAA TGCATCCCCA TCGTTAAGTG ACACAGACTG TCCCTCATAT	150
5	CACCGGAGGA CTGGNCCAGG ACCTCCTGGC GGCACCAAAA TCCACGAGCG	200
	c	201
	(2) INFORMATION FOR SEQ ID :1101:	
10		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 212 base pairs	
	(B) TYPE: nucleic acid	٠.
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
,		
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1101:	
20		
	TAGCAATAGG CTATAACATA TACCGAGGTA TAGGCTACAC TAGCTAGGTT	50
	CGTGTAAGTA CACTCTATAT TAGCACAACG ATAAAATTAA CTAGTGATGC	100
25	ATTTTTCAGA ATGCATCCCC ATCGTTAAGT GACACATGAC TGTCCCTCAG	150
	TATCACTGGA GGACTGGGNC CAGGACCTGA CCTGGTGGTA CCAAAATCCA	200
	MCZ CCCNOVA AM	010
.30	TGAGGCNGNA AT	212
30	(2) INFORMATION FOR SEQ ID :1102:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 218 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :1102:

	CGGTAGCAAT AGCTATAACA TATAGCCGAG GTATAGGCTA	CACTAGCTAG	50
	GTTCGTGTAA GCACACTCTA TACNNGCACA ACATAAAATN	AACTAGTGAT	100
5	GCATTTCTCA GAATGCATCC CCATCGTNAA GNGACACATG	ACTGTCCCTC	150
	AGTATTACTG NAGGACTGGN CCAGGACCTC CCTGGGGTAC	CAAAATCCAN	200
	GAGTGGAAAT TCCANCAT		218
10	(2) INFORMATION FOR SEQ ID :1103:		
	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 207 base pairs		
15	(B) TYPE: nucleic acid	•	
	(C) STRANDEDNESS: double		•
	(D) TOPOLOGY: linear		•
			•
		•	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :110	3:	
	GTAGCAATAG GCTATAACAT ATACCGAGGT ATAGGCTACA	CTAGCTAGGT	50
25	TCGTGTAAGT ACACTCTATA TTAGCACAAC GATAAAATTA	ACTAGTGATG	100
	CATTTTTCAG AATGCATCCC CATCGTTAAG TGACACATGA	CTGTCCCTCA	150
30	GTATCACTGG AGGACTGGGN CCAGGACCTG ACCTGGTGGT	ACCAAAATCC	200
30	ATGAGCG		207
	(2) INFORMATION FOR SEQ ID :1104:		
35	(i) SEQUENCE CHARACTERISTICS:		
:	(A) LENGTH: 259 base pairs	*	
	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
40			

	(xi) SEQUENCE DESCRIPTION: SEQ ID :1104:	
	GGCGTCAAGT GGCCCAATCT AACAGCTCCA GGGTAGCCAC AACCATCGTG	50
5	ATGGATTGCC ATTATTGTGT GCTAGTGGCT AGAGGTAGAC CCAATAGAAC	100
	TCTGCCCCAA CAGGGCAACA GCCAAGCTCA ATTCTCCAAG CCCCTGAAC	150
10	AGACCTTCCA CATCCAGGAG AAGCTGTTGT TGTCTAGAGC TACTTAGTGT	200
<u></u>	CAGAATCCAG GCCAGCTTGG CTGCTTGATG CGACTGGCTA TAGGATTNGN	250
•	GTGNAGGCC	259
15	(2) INFORMATION FOR SEQ ID :1105:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 230 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :1105:	
	ACATGACCCC TTGGACTGAA GGCGCTCAGT AGTAAAGGAG TGTCATGCAG	50
30	GTCAACACAT GTCGCACATG GACCACAAAG CCTGCCACCA GCAGGATGCA	100
	CGGGGACTTC TGGGAGGGG TGGACAGGAT ACTTATCTGT GACTGGAATG	150
	CAGGCGAGAG GCGGAGAAGA GAGTGAAGGA TAACTCATAG AGGGGGCAGC	200
35	ATTTGTTTCG NGTTGAAAGA GGCAGAAAAT	230
	(2) INFORMATION FOR SEQ ID :1106:	
•	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 163 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :1106:	
	ACATGNCCTG GACTGAAGGT GCTCAGTTAG TAAGGGAGTG TCATGCAGGT	50
	CAACACGT CGCACATGGA CCACAAATGC CTGCCACCAC AGGATGCACA	100
10	GGACTTTTGG GGGGAGTGGA CAGGTATTAT TGNGACTGGT GAGGTGAGAG	150
•	GTNAGAGGGG GCT	163
15	(2) INFORMATION FOR SEQ ID :1107:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 182 base pairs(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :1107:	
	ACNTGATGAT TGCCATTATT GTGTGCTAGT GGCTAGAGGT AGACCCAATA	50
20	GAACTCTGCC CCAACAGGGC AACAGCCAAG CTCAATTCTC CAAGCCCCCT	100
30	GAACAGACCT TCCACATCCA GGAGAAGCTG TTGTTGTCTA GAGCTACTTA	150
	GTGTCAAATC CAGGCCAGCT TGGCTGCTTG AT	182
35	(2) INFORMATION FOR SEQ ID :1108:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 214 base pairs(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :1108:	
	CCCCTGGACT GAAGGCGCTC AGTAGTAAAG AGTGTCATGC AGGTCAACAC	50
5	ATGTCGCACA TGGACCACAA AGCCTGCCAC CAGCAGGATG CACGGGGACT	100
	TCTGGGAGGG GAGTGGACAG GATACTATCT GTGACTGGAA TGCAGGCGAG	150
10	AGGCGGAGAA GAGAGTGAAG GATAACTCAT AGAGGGGGCA GCATTTGTTT	200
	CGNGCCTTGA AAGA	214
15	(2) INFORMATION FOR SEQ ID :1109:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 133 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :1109:	
	ACATGGCCCC TGGACTGAAG GTGCTCAGTT AGTAAGGGAG TGTCATGCAG	50
	GTCAACACC GTCGCACATG GACCACAAAT GCCTGCCACC AGCAGGATGC	100
30	ACAGGACTTT TGGGGGGGGT GGACAGGTAT TAT	133
	(2) INFORMATION FOR SEQ ID :1110:	•
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 156 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :1110:

	GCATGACCCC ATGGCACTGA AGGTGCTCAG GTTAGTAAGG GAGTGTCATG	50
	CAGGTCAACA CATGTCGCAC ATGGACCACA AATGCCTGCC ACCAGCAGGA	100
5	TGCACGGGGG ACTTCTGGGA GGAGAGTGCA TAGGATACTT GTCTGTGACT	150
	GGAATG	156
	(2) INFORMATION FOR SEQ ID :1111:	
10		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 282 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
		*
	(with anoughous propertients), and the first	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :1111:	
	GGCGCTCANT GGATCCAATA CACCAGACTC CCGGGAGCGA AAACGCCCGC	50
	AGGTGCCTCA AAGAACTTAA AACAGAACTG CCATTAGACC CCACAATCTC	100
25	ATNAAGGATG TTATAGATAT ATCCAAAAGA AAATAAATCA TTCTTCAAAA	150
•	AGACACATAC ACTAACACGT TCATGGAGCA CTATTCACAC AGCAAAGACT	200
30	CGATCAACTC ACACACTCAT GAATGCGGAT CGAAATAGAA GATGTGGTAT	250
	GCATACACCA CGAAATACTA CGAGCCATAA AA	282
	(2) INFORMATION FOR SEQ ID :1112:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 181 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

	(xi) SEQUENCE DESCRIPTION: SEQ ID :1112:	٠
	TAATTAGTTT AACCACTGTG GAAAGCGTTG TAGGGTCTCA AAGACTNAAA	50
5	ACAGAACTGC TTAGACCCCA CAATNTTANG AGCGGATGTT ATGATATATT	100
	CAAAAGGAAA TAAANNGNCN TGTNAAAGAC CATACACNAT NGTCCATCGG	150
10	AGCCCGTATN CACGCAGCTT GTCATAACTA T	181
10	(2) INFORMATION FOR SEQ ID :1113:	
	(i) SEQUENCE CHARACTERISTICS:	٠.
15	(A) LENGTH: 278 base pairs (B) TYPE: nucleic acid	
13	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1113:	
	ATCCAATGAC ACCAGACTCC CGGGAGCGAA ACGCCCGCAG GTGCTCAAAG	50
25	AACTTAAAAC AGAACTGCCA TTAGACCCCA CAATCTCATN AAGGATGTTA	100
	TAGATATATC CAAAAGAAAA TAAATCATTC TTCAAAAAGA CACATACACT	150
30	AACACGTTCA TGGAGCACTA TTCACACAGC AAAGACTCGA TCAACTCACA	200
-,	CACTCATGAA TGCGGATCGA AATAGAAGAT GTGGTATGCA TACACCACGA	250
	AATACTACGA GCCATAAAAG GCGAAATC	278
35	(2) INFORMATION FOR SEQ ID :1114:	•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 125 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :1114:	
5	ACCTGCAAAC TTTTTCTGTA AAGACCAGAT AGTAAGTATT TTATGCTTTG	50
	TGAGCCATAC AGTTTTTGTT GCAACTAGTC AACTCTCAAC TNACGTGGAC	100
	AGCATGTAAA GAACGAGAGT GACTG	125
10	(2) INFORMATION FOR SEQ ID :1115:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 157 base pairs	
	(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :1115:	· .
	GTAGCGACCG GCGCTCATGG AATTCCGGGA CCTGCAAACT TTTTTGAAAG	50
25	ACCAGATAGT AAGTATTTTA TGCTTTGTGA GCCATACAGT TTTTGTGCAA	100
	CTAGTCAACT CTCAACTCAC CGTGGACAGC ATGTAAATGG ATGGGAGTGG	150
	CTGCCGG	157
30	(2) INFORMATION FOR SEQ ID :1116:	
	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 123 base pairs	
	(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	CROURNOR DECOLORION. CEO ID .1116.	

CCTGCAAACT TTTTCTGTAA AGACCAGATA GTAAGTATTT TATGCTTTGT

	GAGCCATACA GTTTTTGTTG CAACTAGTCA ACTCTCAACT NACGTGGACA	100
	GCATGTAAAG AACGAGAGTG ACT	123
5	(2) INFORMATION FOR SEQ ID :1117:	
	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 125 base pairs	
	(B) TYPE: nucleic acid	•
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :1117:	
	ACCTGCAAAC TTTTTTTGTA AAGACCAGAT AGTAAGTATT TTATGCTTTG	50
20	TGAGCCATAC AGTTTTTGTG CAACTAGTCA ACTCTCAACT CACCGTGGAC	100
20	AGCATGTAAA TGGATGGGAG TGGCT	125
	(2) INFORMATION FOR SEQ ID :1118:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 125 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1118:	
35	ACCTGCAAAC TTTTTCTGTA AAGGACCAGA TAGTAAGTAT TTTATGCTTT	50
	GTGAGCCATA CAGTTTTCGT TGCAACTAGT CAACTCTCAA CTTCACCGTG	100
	GACAGCATGT AAATGGATGG GAGTG	12!
40	(2) INFORMATION FOR SEC ID .1110.	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 148 base pairs

	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :1119:	
10		
	ATTAAGCTTG ACACATCTGT GTTATCACGC ACTGAAGACA GGAAGCAGTT	5
•		
	CACTGAGTCA GCTGGCTTCC AAGCTTACAC AGAAGGCGAT AAGTCACTAT	10
15	CAAAGAGCCA ATGAGAATCT TCTTATAGAA TAACCTGGGC CCAAGTGA	14
	(2) INDODVINTON DOD ODG ID 1100	
	(2) INFORMATION FOR SEQ ID :1120:	
	(i) SEQUENCE CHARACTERISTICS:	-
20	(A) LENGTH: 240 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1120:	
20	AGAATAACAG AGCCAAAGGA CTAATAAAAT CAATGAATCN TGGTGAGACT	5
30	AAMCAACAAA AAAMACAACA AACAACAAA AACAACAAA	
	AATCAAGAAA AAATAGCACC AACAACAATG AGGAGAAAAT GGAAAAAGGG	100
•	CAGAGTATTT CAL GATTAC GAGAGGGCAA ACCAATCAAC GAATGATTCT	15
	CHARGATTT CAP BATTAC GAGAGGCAA ACCAATCAAC GAATGATTCT	150
35	TAAGCCTTCA GTTTGCCCTG TAAGCAAACT GAAGACGTGC AAGTCATCCT	20
		20
2 1	TTGCCCTGGG AGAGTTAACT TAACCCACAG GGACAACTAG	240
٠	(2) INFORMATION FOR SEQ ID :1121:	
40		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 254 base pairs	

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(B) TYPE: nucleic acid(C) STRANDEDNESS: double

•	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1121:	
	AAATGGGGAG AATCAACAGA GCCAAAGGAC TAATAAAATT AAGAATCCTG	5
10	GTGAGACTAA TAAGAAAAAA TACACCAACA ACAATCCGAG AAAATGGAAA	10
	AAGGGCAGAG TATTTAATGA TACGAAGATG GGCAAACCAA TCAATGAATG	15
15	ATTTTTAAGC CTTCACGTCT GCCCTGTAAG CAAACTGAAG ACGTGCAAGT	20
	CATCCTTCGG CCCTGGAGAG TTAACGTTNC CCAAGGGGCA ATGAGAAGGG	25
20	ACAG	25
20	(2) INFORMATION FOR SEQ ID :1122:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 253 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1122:	
	AAACGAGGGG AGAATCAACA GAGCCAAAGG ACTAATAAAA TCAATGAATC	5
35	NTGGTGAGAC TAATCAAGAA AAAATAGCAC CAACAACAAT GAGGAGAAAA	10
	TGGAAAAAGG GCAGAGTATT TCAATGATTA CGGAGAGGGC AAACCAATCA	15
	ACGAATGATT CTTAAGCCTT CACGTTTGCC CTGTAAGCAA ACTGAAGACG	20
40 -	TGCAAGTCAT CCTTTGCCCT GGGAGAGTTA ACTTAACCCA CAGGGACAAC	25

	GAG	25.
	(2) INFORMATION FOR SEQ ID :1123:	·
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 210 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	•
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1123:	
15	AAATGGGGAG AATCAACAGA GCCAAAGGAC TAATAAAATT AATGAATCCT	50
•	GGTGAGACTA ATAAGAAAAA ATACACCAAC AACAATCCGA GAAAATGGAA	100
20	AAAGGGCAGA GTATTTAATG ATACGAAGAT GGGCAAACCA ATCAATGAAT	150
	GATTTTTAAG CCTTCACGTC TGCCCTGTAA GCAAACTGAA GACGTGCAAG	200
	TCATCCTTTG	210
25	(2) INFORMATION FOR SEQ ID :1124:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 231 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :1124:	
	AAATGGGGG AGAATCAACA GAGCCAAAGG ACTAATAAAA TTAATGAATC	. 50
40	CTGGTGAGAC TAATCAAGAA AAAATAGCAC CAACAACAAT CAAGAGAAAA	100
	TGGAAAAAGG GCAGAGTATT TAAATGATTA CGGAGACGGG CAAACCAATC	. 15/

	AACGAATGAT TCTTAAGCCT TCATGTTTGC CCTGTAAGCA AACTGAAGAC	200
	GTGCAAGTCA TCCTTTGGAC CCTGGGAGAG T	23
. 5		
	(2) INFORMATION FOR SEQ ID :1125:	
	A TOWN AND AND AND AND AND AND AND AND AND AN	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 89 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(b) ToroLogi. Illiear	
-		
15		
13	(xi) SEQUENCE DESCRIPTION: SEQ ID :1125:	
	AAGTCCCATC AGCAACCCGT TTTTTACCAG ATGTCACTCA AGAATGCGCC	. 50
20	CGTGGCCCTC CAGTTCCTGC GCACTAAGAG CGTCCCGCT	. 89
	(2) INFORMATION FOR SEQ ID :1126:	
	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 205 base pairs	
	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1126:	
	AAGAAACCCG AGACMCCAAC TAATCCCAGA ACAGCTAAAA CCAATAAAGA	50
35	ACCAAAACTT CACGACCACT TTCCTGAGGA CCCTGCTGAG TGCTCATGAC	100
	ACCAATACTG ACAATTGTAG CGGTAATACA TACAATGATT TAATAAGCCT	150
40	ATGCTACTGG ACACATGCCC ACACAATAAT ANTCANRTGT NTYGTTAGGC	200
	CTACT	209

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(2) INFORMATION FOR SEQ ID :1127:

	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 151 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	• ,
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1127:	
	GCAAGGCCTG GCCGACAACA CCCTTATTGC TAAAGTAAAT AATGNCGCGC	E
	GUANGGUUN GUUGHUANEN UUUTATIGU-TAAAGTAAAT AATGNUGUGU	5
15	GGGGCCTGGA CCACCCTCTG GAAGAAGATT GTACCTTGGA GCTTCTCAAG	10
	TCTGAGGATG AGGAAGCTCA GGCAGTGTAT TGGCGCTTTA GTATCACATA	150
	A	15
20		٠
	(2) INFORMATION FOR SEQ ID :1128:	•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 237 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
*	(xi) SEQUENCE DESCRIPTION: SEQ ID :1128:	
	GAGCACCCCA GCCCATAACA CAGAACTCGT CCCCCTACCC CCCTCAGCAA	5(
	ondended Cooperation Character Cooperation	
35	GCCGGAGAGG CTAGCCCAAG TAATCATAAY AACAGCCGCC CGAGAGCAGC	100
	CCCAGTAGCA GCCCCATGGC CGGGCGGAAC ACCTACATCG ACAACCTCAT	150
4.0.	GACAGACGAG ACCTGCCAGG ACGCAGCCAT TGCGGGCTGC AAGGCCTCRC	200
40	COMPONENTS CARROLL CONTRACTOR CON	•
	CCTTCGTCTG GGCCGCCGTC CCCGGAGAAA CGCTCGT	23.

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	(2) INFORMATION FOR SEQ ID :1129:	
	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 126 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1129:	-
	GCCTCGTGGA AGTGACATAG CCTTTAAACC CTGCGTGGCA ATCCCTGACG	50
15	CACCACGTGA CGCCCAGGAA AGACAGGGCG ACCTGGAAGT CCAACTACTT	100
	CCTTAAGATC ATCCAACTAT AGGATG	126
20	(2) INFORMATION FOR SEQ ID :1130:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 246 base pairs	
	(B) TYPE: nucleic acid	
0.5	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1130:	
	GCCATCTTCT GTAACAAAAT AAATAGTGTC AAGCACTAAA TATATGCATG	50
	AATGCATCAG CAATAAGATG ACAATCAAAG AATGCTGTGA AGATTGGCAT	100
35	CAAGATGTTA GCAGCATACT GCAGGACTAG GCTTAGAAGC CTACCTGCAG	150
	TTTATTTGCA AGGATTTTTC TTTCGRGGGC GGAGGGGAGA GAAAAGTAAA	200
40	TGTGCTAACT TCGGATACTT GCCCTTATAA AGAATTCCTT YGTATC	246
	(2) INFORMATION FOR SEO ID :1131:	

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(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 273 base pairs(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1131:	
10		·
	CGAGGATCCG GGTACCATGG CAAGTCTCAT GAGGCTATTT ACCGAATTTA	50
	TCCTCTGTCT GACCATGATT TTTTCCCTCA AATACAACCA CTCCTCGACT	100
15	TTTCACCCTC AAAGTATAAA AAGTATGAAA NATAAACAAG CTCTTGCACT	150
-		
	GTACACTTAG AAGTGTACAA TTAAAGCATT ATAGAGCTAT CTACACACCG	200
	ATAAATCCCA TCGAATCTTG AATAATCCAT CAATACGTAG AACGCAAGGG	250
20	MINIMIPOGN TOGRATOTTO ANTANTOGAL CANTAGGING ANGGENAGGG	250
	TGCAGACAGA ACTAAAACCA ACT	273
		2.5
	(2) INFORMATION FOR SEQ ID :1132:	
25	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 329 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1132:	
25		
35	GAGGATCCGG GTACCATGGT CTGTATATCT GTGCTTCCAC TTCTCGGAGG	50
	TGGTAGAGGG GAGGCTGTCC TCTGGTCAGG AGAATCCTAT TCAGTGCTCC	4.00
•	TOGINGAGES GAGGETGICE TETEGTEAGG AGAATECTAT TEAGTGETCE	100
	CTTAGACATT CTTCCAGGCA GGATCAAACT CAAAGGAAAA GGAATTTGTG	150
40	Control of the contro	130
	AAGCAAACCA TGGCTTTGTC ACAGTAAAGT AATTGTCACT CTCAACCCAG	200
	\cdot	

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	AATGTGTGAA GCGCTGCAGG GAGAAGCTTC TCTTCCAGGA GAGCAATANA	250
	AGCCAATGTA TCTGACCCTT GCTTYGATGA GAGTTAATAA TAAGTATTAT	300
. 5	ATTTCTGTTT GTTAAAAGT TCAGAATTT	329
	(2) INFORMATION FOR SEQ ID :1133:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 24 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	٠.
15		
13		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1133:	
	CCCCGAGCTA GTTGTCCCGA CCTG	24
20		
	(2) INFORMATION FOR SEQ ID :1134:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 297 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
•		
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1134:	
	GAGGATCCAC AAACCATGGA ACACTCTCGC GGCTGCCACT CCCCCATGAC	50
35	CACCCTACAG GCCCTAACCC CAGCCCCTCA CGTTATCGTC CAGCCACAAA	100
. *	TAGCTGCCGC CCTGAGATCT CCACCTCAGA CCCTCTCCCG AAGCCCACAG	150
	CGGCCCCTGC CGGGCACCCC AGCTTCCTCG CAGGCACCAA AAGCGCAGTT	200
40		
	CCAGGAATCT CTACCCTAGA GTGATCCGGC GCCAGTTGCC AGTTAAGGGA	250

	CCAAACCTCG CCAGAAGGCT TCTTTTCGGG TTGATCGCCA TCTATTY	297
	(2) INFORMATION FOR SEQ ID :1135:	
. 5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 93 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1135:	
15	GCCGCTTTAC TGCTCAGTTC GGAGCTACCG CTTCGAAAGC AACAAAAAAG	50
4	CNTTTGCAAA TGAAACGAGA TTGCTGAATT GCGTACACCG AGA	93
	(2) INFORMATION FOR SEQ ID :1136:	·
20		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 334 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1136:	
	CGAGGATCCG GGTACCATGG AGCTTCACAC GGGTCTTCTT GGTCTCAGGG	50
	TTGTGGGAGA TAACGGTGGC ATAGTTCCCT GATGCCCGGG CCAGCTTGCC	100
35	ACGGTCTCCA GGCTTCTCCT CCAGGCAGCA CACGATTGTA CCCTCAGGCA	150
	TGGTGCCCAC AGGGAGCRCA TTGCCAATGT TGAGCTGGGC CTTCTTGCCG	200
40	CAATACACAA ACTGGCCCGT GNGAATGCCC TCGCGGGCAA TGAACAGTTC	250
	CGCCCGCTTC TTAAACCAAG ACAGATCCCG GAAGGCCGCC TGGGCAAGGG	300

	GCCCCTCRAA CCCGGGGCTA TACACGTCAA AATC	334
	(2) INFORMATION FOR SEQ ID :1137:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 199 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1137:	
15	CGAGGATCCG CATACCATGG CCCCCATCTT ACGAGCCCTT ACTCCTCATG	50
	ATGAAGAAC TCCAAACCCT TTGACAGCTC CTCGGGGTNA AACCTGGNAY	100
20	AAAGCTGACT GACCAGGCTC CATGAAATCT CCCATCTCCA TRATGTACCT	150
	CCTTGRTGCC ATCTCTATAT AAAGMGAACC AGTCCTAAAA TCAAACACT	199
	(2) INFORMATION FOR SEQ ID :1138:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 304 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	٠.
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1138:	
35	CGAGGATCCA AATACCATGG CGCTCCCTCC TCCCGAGCGC CGCTCCGCGT	50
	GGCACCCGGC TCGCTCCGAG TTTCAGGCTC GTGCTAAGCT AGCGCCGTCG	100
40	TCGTCTCCCT TCAGTCGCCA TCATGATTAT CTACCGGGAC CTCATCAGCC	150
	ACGATGAGAT GTTCTCCAAC ATCTACAAGA TCCGGGAGAT CGCGGACGGG	200

	TTGTGCCTGG AGGTGAAGGG GAAGATGATC AGTAGGACAG AAGGTAACAT	250
	TGMTGACTTG CTCATTGGTG GAAATGCTTC CTCTGAAGGC CCCGAGGAAG	300
5	AAGG	304
•		
	(2) INFORMATION FOR SEQ ID :1139:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 277 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
•		
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1139:	•
••	GAGGATCCGG GTACCATGAG AAACTTTGAA GCCAGAGATT TTAAACAATC	50
20	AAGGCACTTG AAAACATTAA GTATATGTAC AAATGTGCAA GTAAAACAAA	100
	ANGUENCITO ANANCATIAN GIATATOINE ANAIGIGEAN GIANANCAAN	100
•	CAGCTGTACC AACGAGTAAC AAAGAAACAG TAAATCTTCA TCTTAACAAC	150
25	CTTTAATAGT TATCTAAATG CAGAGTTTGT TTATGAAATG AACCAAAGCA	200
	GTTTGTCATT TCTTACTATA AAATACCGAA AATAAAGTGC AAAACTTAGC	250
•		
	CACTACTGGC TAAAGAAACT AAGTAAA	277
30		
	(2) INFORMATION FOR SEQ ID :1140:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 208 base pairs	
35	(B) TYPE: nucleic acid	
٠	(C) STRANDEDNESS: double	
• *	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :1140:

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	CGAGATCCGG GTACCATGGC CTCCTACAGG TGCCGTGGAG CCACGCCCAA	50
	AAGAGAGCTC CCTGAGAAAC TCGTTGATGC CTTGCTCACT GAAGGAGCCT	100
5	TTTAGCAGAG CAAATTTCAT CTTGCGTGCA TTGATGGCGG CCATGGCGGG	150
	GTACCCAAAC CCTCCAATTC CCAACGCGGT CTCAAGTTCA GACTGGGCTC	200
10	CAGCTTCT	208
	(2) INFORMATION FOR SEQ ID :1141:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 274 base pairs	٠.
15	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1141:	
	CGAGGATCCG AGTACCATGG CCTCGAACTG AGCATCAATA TATTCTACTG	50
25	CCAGCTTATA ACTGTCATCT TTATTCATAT GGTCTCCAAA TCCCACGATG	100
	TCAACAATGG TTAACTTCAG CCGTACATTG CTTTCCTGAA GCTCATAACT	150
	TCTGGCTTTT AACCGAACAC CTGGTTCATT GTGAGTAGCT GGGTCACTTT	200
	TAAATTTGGT GTTGAACAAA GTGTCCATTA ACGTGGATTT GCCAATGCCT	250
	GTCTCACCAA TACAAAGGAT GTTG	274
35	(2) INFORMATION FOR SEQ ID :1142:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 226 base pairs(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :1142:	
	GCCTGCACAT TGACTGTGGG AAACTCGGAA ACAAGCTCAC ATCTCCCCGT	50
5	GGGAAACCTT CTAGCAACAG GATGAGTCTG CAGTGAACTG CAGTTGCCAC	100
	CTTCCTCTAT GCGGAGGTCT TTGTTGTGTT GCTTCTCTGC ATTCCCTTCA	150
10	TTTCTCCTAA AAGATGGCAG AAGATTTTAA AGTCCCGGCT GATGGAGTTG	200
	TTAGTGTCCT ATGGTAACAC CTTCTT	226
15	(2) INFORMATION FOR SEQ ID :1143:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 168 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1143:	
25		
	RGGRTCCRNG TGCCRTGGGG YNTNNCTAGR CRGCRGGYAA GGTCCACCRC	50
	TGRCRCGNTG NCNGTGAGGR CRTGNRGGNC CRTGCGAGTG GGCTTACCGN	100
30	TAGGTTCGGG AATGACCTTG CYMACGNCNN YGACAGCTAA GTRGRNGCRG	150
	GNANGRTGNN GTGGAGRG	168
35	(2) INFORMATION FOR SEQ ID :1144:	
- -	(i) SEQUENCE CHARACTERISTICS:	
,	(A) LENGTH: 256 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	• • • • • • • • • • • • • • • • • • • •	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :1144:	
	CGAGGATCCA AATACCATGG AGCTGACAAT GTCAGCTCAA TTTGAAGTAT	50
5	TCTTGAGGGA CCTTTTGCTC ATAGGCTTTA ATTCTGTCTG TGACTTTTGC	100
	CAGGATTTGA GGAAATCGAC TGCCTTCACT CTTCCCTGAA ACTTTGAAGT	150
10	CCACATAAGG GCTTTCTCAT CAAATGGCAG AAATTATAAT TTATAAACCT	200
10	AAACAACCTT ATAGTGTTTT CGCTTTGAAT TGTATGAATT CTTAGAACTG	250
	AGAAGT	256
15	(2) INFORMATION FOR SEQ ID :1145:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 184 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :1145:	·
	AAACACAAGG CTAAAAGTCA CTAAAGGTGA CACAGTACCA ACCCCGGGAA	50
30	GGTTGAGTTC TGTGCTGCTA CCTTCTACTG ATGGCGAATA GACTATTCTG	100
	TACCCTGTGA TGGGAGCCTG GGGTCTGCTC CAGCAAACAA CAATCGAGGT	150
	GTAATCAACT TGGTCCACAG TCGGGTCAGG AGGG	184
35	(2) INFORMATION FOR SEQ ID :1146:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 221 base pairs(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	

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	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1146:	
•	CGAGGATCCG GGTACCATGG CCCAAAGAGT GAATGATGTA TCCCAGGGCG	50
5	CAGTCCACAA CTTGCGCAGT ACCTTCCCAG ATGACAGCCT CACTGGACCG	100
•.	ATTTCCATCC ACGAAGATGA TGCTAAGAAG CACCATGAGC AGACCCAGCT	150
10	TGGGTGAGTC CTTAGTCGTT CCCAGTATGC CTGCATCAGT GGGCTCTAAG	200
	GTGCTGAGAA GAATGCACAA G	221
16	(2) INFORMATION FOR SEQ ID :1147:	
13	(i) CROUDNOR CUADACTERICS.	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 255 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(5) 101020011 12.1001	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1147:	
25		
	CGAGGATCCA AATACCATGG GAGTCAAGCA TGCCTCGATA GCCACAGATT	50
·	TACAAGAATT ACCTACAGTT TGCTTCTTNG AATCGACATG CAAATCTGCT	100
30	TAAGGATTCT CACATTCAGG ACAGAGAACA AATTTTTTAA TGAATCCATC	150
	CAACAGGTCT TGNAGTTTAT TCGCCTCATG AGATCCATTG ATAATGGAAC	200
35	RRTMATTCTT AACANCAAAC NGMGMCTGNN NTCCCRNCTT ATAACCMAAA	250
<i>.</i>	GATNT	255
	(2) INFORMATION FOR SEQ ID :1148:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 230 base pairs(B) TYPE: nucleic acid

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(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
5	(xi) SEQUENCE DESCRIPTION: SEQ ID :1148:	
	CGAGGATCCA GGTACCATGG ACGATTCACA GCCCCTGGCC ACTGGCCATT	50
10	TCCAGTGGTA GGGAGCACAC TGRTCACATT CGAGACCCAC CACGTTGAGC	100
	AGACAAAGGC AGCCTCCACT CTCCTCGTCA CTCAACATGT ACCTCCGTCC	150
15	CCCAGGATGT TGTAGTTATA GCAATAGCAG CCCTGCGGTT GACGTAGGTG	200
+5	AGTCGGTGAC GCCCGATTTG GATCGGGTGT	230
	(2) INFORMATION FOR SEQ ID :1149:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 223 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1149:	
30	GTGCCGTTGG TCCTGTGCGG TCACTTAACC AAGATGCCTG AGGAAACCCA	50
	GACCCAAGAC CAACCAATGG AGGAGGAGGA GGTTGAGACG TTCTCCTTTC	100
35	AGGCAGAAAT CGCCCAGTTG ATGTCATTGA TCATCAATAT TACCNACTAG	150
-	AACAAAGAGA TCTTTCTGAG AGAGCTTATT CAAAATACAT TAAATGTATT	200
	GGACAAATT CGATATAAAA GCT	223
40	(2) INFORMATION FOR SEQ ID :1150:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 272 base pairs(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1150:	
10	CGAGGATCCG AGCACCATGG AGAGACTATG ACGCTCAACA AGAATCACTC	50
,		
	GGAGGGCGAC GGAGTGATCG TCAATAACAC CGAGA TC CTAATGCCCT	100
	ATGATCACGT GGAACTAACA T CAATGACA TGAAGAACGT GCCAGAAGCC	150
15		
	TTCAAAGAGA CCAAGAAAGG CGCTGTCTAC CTTACTTCTC ATTGAACCAT	200
	CTTTATGTCC AAGAACAAGG ATGCGATGGG TATTTCGTGA NGCTATTTGA	250
20	NMTRAGGRMA GNCTGNAAGG TM	272
-		
	(2) INFORMATION FOR SEQ ID :1151:	
•	(5) = 1.2 • 1.1 • 1.2 • 1	
	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 140 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(2) 20102017 201011	
30		
٠	(xi) SEQUENCE DESCRIPTION: SEQ ID :1151:	
	(,,	•
	TGAGGATTTA TAGATTANAG CTAGAGTTCA CATTTTATGG ATTACAACCA	5
35		
.	AAAAAAACCT GAAAAAGAAA AAAAACAAAA AAGCTCAAAA GCAATCACAA	10
		_
	GGATAGTTGA ATCCCTCTTT AAACCCCCAA AGCAACCCCC	14
40	(2) INFORMATION FOR SEQ ID :1152:	
	(2) amount of the second of th	
	(i) SEQUENCE CHARACTERISTICS:	
	(1) ppgapuan ammananana.	

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(A) LENGTH: 208 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

_	(D) TOPOLOGY: linear	
5		٠
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1152:	
10	AAGGATCCGG GTACCATGTA TTCCCCCGGT ATCAGCAGAG GCGTGTACGG	50
	GCACTGCTTT AAAACTGGGA AGGAGGAAGA CGAGGCCAGG GAGCCGGAGG	100
15	GTCACCAAGG TAGATTTCCA GCAGCCTAGT CCAGCTGAAC GCTTTCCAGC	150
	CTTGCTTTTT AGCAGCTTTG AGGAAAAGTA TAGTGATCCG GATGTGAAAC	200
	TTTCATTG	208
20	(2) INFORMATION FOR SEQ ID :1153:	•
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 274 base pairs(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1153:	
	CGAGGATCCA GGTACCATGG GGTGGATCCG CCGGGCATAG CCACCCTGGA	50
35	TGGTGGCCAT GGTGAGGCCG ATGAGGAAAA ACATCTTCCC CTGCTGTAGG	100
33	CTACTGAACT GGAAGCGCTG GTGTGTGAGG AAGCTCAACG TGCACTCCAG	150
	GCCCAAGAAC AGGAAGAGT AGAGGAAGTA GACTMGGCCC AGGCGGCCAG	200
40	GCTGATGAAT TGTCTCCAAA GGGTGAGACC TGGCCACGAG CCATANCCCA	250
	GAMGCCNMAC AGGGCTRGGG ACTG	274

	(2) INFORMATION FOR SEQ ID :1154:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 267 base pairs	
5	(B) TYPE: nucleic acid	4
-	(C) STRANDEDNESS: double	,
	(D) TOPOLOGY: linear	•.
·		
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1154:	
	GAGGATCCAC CGACCATGGA ACACTCTCAA TGGCTGCAAC CACCCCGTGG	50
15	CCCCCTACC AGCCCCAATC TCCAAACCCC GCACGTCGAT CATGACGCCA	100
•	CCAACAGCTG CAGCCCCTGA GATCTTCACC TTAGACCCTC TCCCGAAGCC	150
20	CGCAGCCGCC CCTGCGAACC CTCCAACTCG TTCACACGCG CCGAAAGCCT	200
	ATTCCCAGGA CTCTCTGCCC CTACGTGACC GNCCCTAGCT GCTAGTCGAG	250
	AATCCGAACT CCGCTCC	267
25	(2) INFORMATION FOR SEQ ID :1155:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 231 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :1155:	
	CTCAAACCCC GNTTCCCCCC TAATAAGAGC AACTAAAAAA CTTCTGATAA	50
40	CCACAATAAA AGCGTGCATT TGAGCACAAT TCAAAAGCCA ACCCCTTCGA	100
	AGGNGCTTCT GATGNAAAAG GAGTTATGTT GAACGAAGCA GGAGTTAACG	150

	CTACACAGTC AAATTGTGGC ATTAGGACGC GCGAGCGGGC TAGCTGCGGC	200
	CGTCTANCAA GGCAACGGCC GCCTTTGAAT T	231
5	(2) INFORMATION FOR SEQ ID :1156:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 128 base pairs	
	(B) TYPE: nucleic acid	•
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		٠.
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :1156:	,
	GCGCGAGCAC AGAGCCTCGC CTTTGCCGAT CCGCCGCCCA TCCACACCTG	50
	CCGCCAGCTC ACCGTGTATG ATGATATCAC CNCGCTCGCC ACCAACRACG	100
20	GCTCYAACMT GTGCAAGGCC GCCTTCAA	128
	(2) INFORMATION FOR SEQ ID :1157:	.·
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 126 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	•
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1157:	٠
35	GCCGCAACAC AACCCAGGGA GACTCAAGNC CACAGGGGCC CCCCGGCTCT	50
	GAGGGATTCA CCGTCGCCTC CCGGTCCCCG AAGGCCCACA AGGGCAGAAA	100
	GGTGAGCCTT ATGCACTGCC TAAAGA	126
40	(2) INFORMATION FOR SEQ ID :1158:	

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 101 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1158:	
10		
	AATAACCATA ACTGCAAAAA CCCAAMCAAA AAAAAAGGGG GAACAAAAAA	50
	CCCCAAACCC CCAAAAAAAC CAGAAAAAAC CACAAAAAAA AACCCCTCCT	100
15	T	101
		•
	(2) INFORMATION FOR SEQ ID :1159:	
•		
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 172 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
25		
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1159:	
	GAGGATCCGG GTACGGGCAG GGTGAGAGCC TGGGGTCCAC CGATAACCGG	5(
30		
	GAGGGAGATG GCGTTCTTGA GCAGAGGGGA TGGGCCGTCC GGGAGCTCCC	100
	CCCACACACG GTGGCGGTGC GGGTGAACTG GAAGGGGAGG TCGAAGGTGC	150
35	CATCTTCTTC AGGCCCCTCC AC	172
	(2) INFORMATION FOR SEQ ID :1160:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 235 base pairs	
••	(B) TYPE: nucleic acid	
	(-)	

(C) STRANDEDNESS: double

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(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :1160:	
	GAGGATCCAC ATACCATGGA ACAGCACCAC AAAAATAGCC ATTTTGATCA	. 50
	TGGTTATTTC CCAGGACCAC ACGATTTGCC TACGTCACTG GAAGGCTATG	100
10	TGTCTGTTCT GAGCCTTCCC ACTCTCCTAA AGGGCAGATG AAGATCAGAG	150
	CTTTGACCCT GTGATGCCAT TTTAATCAAC CCTGCTTGGT TTTAGAGGAT	200
15	TGCTCCCGTG GGTCACTTGA GGCAGGCTCC ACCTT	235
	(2) INFORMATION FOR SEQ ID :1161:	
•	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 284 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(b) Totoboot. Timear	
25		
23		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1161:	
	GAGGATCCAC CAACCATAGA AAGTAAATAC TGTATAAAAA GCTCCAGCTG	. 50
30	TTAGATACAA ATGCAAAACG CTTCCTAAAA AACGGCCTGA AAAAAAACTC	100
	ACAGACAATG CCAAACTTTA TAGGTCTGTA TTTTCCTTTA TACAAAATGC	150
35	CCTCAAATTA AAAAGTAATT CCCATATAGC AATAAAGTCC ACATCTCTGG	200
	ATTACCTATA ACCEGTATTA TEGESTETET TTATACTECC TAGAATETTA	250
	ACCCTCATAA AGCCTTAAAA GTACATTTGT GAAA	. 284
	110001011111 110001111111111 011101111101 0111111	

(2) INFORMATION FOR SEQ ID :1162:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 287 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1162:	
10		
	GCTCACATAA ATTTCTTCAC CGACCCTTTT CCTTCCAGCT TCCTTACTAT	5
	AAAAAACCCC ACA ATA TGTTCATCAT CATCCATACT AACCAACCCC	10
15	GTCACCATCT CAATCAGCAG CAAGTCCTAC TCTCTGTGGG TGAAACCTTG	15
15	GICACCATCI CAATCAGCAG CAAGTCCTAC TCTCTGTGGG TGAAACCTTG	
	TTACCACCTC TAGGGGCAGA CCCCTTTTCA GATATATTCA AGAGTTTAAT	20
•	AMOGRACIONA MANGACCOMO ACAGMENCO. MCMMCCOMOMA MCCCOMAGANA	
20	ATCCTCCCAC TATAGCGCTT CGACTTTGTA TCTTCCTCTA TGGCTACCAA	25
	ATTCTGTCCG TTGATAAGTA CTGGCTCTAA ACCATGC	28
•	(2) INFORMATION FOR SEQ ID :1163:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 122 base pairs	
.*	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1163:	
35	GAGGATCCAA AAACCATAAA ATTCATCATC CCCAGCAGGT GCNCTAGCTA	5
	TACTITATIA CAGCAAARCA CAACCACAC CIGAMCIANM ICGIATAGAI	10
	AAACACCAAT CATGGGTCGG CC	12
40	40) THEORY MAD ON ON THE 1164	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 142 base pairs

	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	÷
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1164:	
10	(XI) DEGODACE PEDCATITION. DEG ID .1104.	
	GCGCGGGTCT GTCTCTTGCT TCAACAGTGT TTGGACGGAA CAGATCCGGG	50
	GACTETETE CAGCETECGA CEGECETECG ATTNEETETE CACTTGEAAC	10
· 		
15	CTCCAAGACC ATCTTCTCGG CCATCTCCTG CTTCTGAAGC CT	142
	(2) INFORMATION FOR SEQ ID :1165:	
	(i) SEQUENCE CHARACTERISTICS:	•
20	(A) LENGTH: 219 base pairs	4
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
23		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :1165:	
	TATTCCCCCG GTATCAGCAG AGGCGTGTAC GGGCACTGCT TTAAAACTGG	50
30		
	GAAGGAGGAA GACGAGGCCA GGGAGCCGGA GGGTCACCAA GGTAGATTTC	100
	CAGCAGCCCT AGTCCAGCTG AACACTTTCC AGCCTTGCTT TTCAGCAGCT	150
35	TTGAGGAAAA GTATAGTGAT CCGTATGTGA AATTTTCATC GCACGTAGCG	20
•	GATGAGAATA GAGAACTCA	219
	(2) INDODUATION FOR CDO ID 1166	
4Ó	(2) INFORMATION FOR SEQ ID :1166:	
70	· · · · · · · · · · · · · · · · · · ·	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 202 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1166:	
10	GAGGATCCAC CAACCATAGA AAGGAAACAA CACTTGGAGT GAACCCGACC	5
10	CAAGCCACTA CACCCCAGCC TAACCGACAG GTGCTAGACT AATNGTNAAA	10
	AACAACCGGA AAATAGACCC GGACGAAGAT CAAAGNTTNT CAATCCAAAC	15
15	ATTTTAGGGG GACCAAGACC CMGGGATCAA AAACAAGGTC CACCACACCC	20
	AA	20
20	(2) INFORMATION FOR SEQ ID :1167:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 159 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
.*		
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1167:	
	GAGAAACCTA CCCAACCAAG AGGCGCCCTG CTTTGTAATG ACCTTTACGA	. 5
	AGACACGTCT GATACCCAAC CTGACAGAGG AAACAACAGT AGTCTGAAAG	10
35	GGACAGAATG AGAGAGGGG CTGGAGAAAG AAATGAATAA ACATGAATGC	15
	ATCTGGAGA	15
40	(2) INFORMATION FOR SEQ ID :1168:	
	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 211 base pairs

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(B) TYPE: nucleic acid(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1168:	
10	CCCTAGACAA GCCACCTGAG GAGAGGCTCG GAGCCGGGCC CGGACCCCGG	5(
	CGATTGCCAC CGCTTCTCTC TAGTCTCACG AGGGGTTTCC CGCCTCGCAC	100
	CCCCACCTCT GGACTTGCCT TTCCTTCTCT TCTCCGCGTG TGGAGGGAGC	15
15	CAGCGCTTAG GTCGGAGCGA GCCTGGGGCC ACCGCCGTGA AGACATCGCG	200
	GGGACCGATT C	21
20	(2) INFORMATION FOR SEQ ID :1169:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 211 base pairs	
	(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
· :	(b) Iorozooti Iimear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1169:	
	GGATTTCCGG TCCTGGCTTT CTGATATTTC TAAAATCGAC CTGGAATCAA	50
	CCATTGACAT GTCCTGTGCT AAATATGAAT TCACTGATGC CCTGCTGTGC	100
35	CATGATGATG AGCTGGAAGG GCGCCGGATT GCCTTCATCC TGTACCTGGT	150
	TCCTCCCTGG GACAGGAGCA TGGGTGGTAC CCTGGACCTG TACAGCATTG	200
40	ATGAACACTT T	. 21
	(2) INFORMATION FOR SEQ ID :1170:	

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(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 266 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
		•
		• .
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1170:	
10		
	GAGGATCCGC GCAACCATAG AACTCACAAC CCAGCCATAT ACCTCAGACA	50
	CAATGGAATG GGCGGAGGTC GAGGTNGACA AACCCTGAGT AATGTTGGGC	100
15	ACTTCCGCAC CGGAGCTGTT CTTACCTTTG ATAAAGTGGA TGTTATTGCT	150
	ATTAATGATC TCTTAACGGA CTTCAACTGT AAAATTNGCA TGATCTAGTC	200
	CTATCCACCA ACGNCGAACA ATATGCTGTT GCCAMGATTG AGCACGAGCC	250
20		
	GTTTGGGCTC AACGGC	266
	(2) INFORMATION FOR SEQ ID :1171:	
25	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 167 base pairs	
٠	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1171:	
35	GGCACAACCC ACTITGAACA ATCATGCTTC AGAAATCTGC CTGACCTTAG	50
٠.	CTGCTGCTGC TGCTCACTTT ATTATAGTAT AACTTCGGTA GGCATACTTG	100
40	GAGAACATAT CCCACATTAG GAATTGATTT AAGCCTGAGA GTTTGAGGGC	150
	TTTAATCCTT TAAAACT	167

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٠.	(2) INFORMATION FOR DEG ID .II.E.	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 232 base pairs	
· . 5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(b) Toroboot. Timedi	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1172:	•
	AATAAACCTC CCTATCACAG TGACCTACTA CCCGCGTGTG CTTATATAAC	50
15	TAATCCAGGA CAACCCACAA AAATTATAGC AACACACAAA CACACCGCTG	100
	ACCATAACAT GTGCGTCTTT CAAAGATGCC TTATCAACCA GAGCGATGAT	150
20	TACTGAGGAT ACGCAACTCA TAAAACTCTA CTTAAAGCAA CAGGGCAGAC	200
	GTGCGTCTGT GCCAGTCGTG AATGTGGTGA AC	232
	(2) INFORMATION FOR SEQ ID :1173:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 93 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	*
	(D) TOPOLOGY: linear	
30		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1173:	•
35	GAGGATCCAC CAACCATAGC CCGAAAATGT GGTAAGGGAC CCTCATCTAT	50
	CACACAACNC AGGTAAGAAG GCACCCAGCC CCATGGGCCA TAC	93
40	(2) INFORMATION FOR SEQ ID :1174:	
	/:\ CPONENCE CUADACTEDICTICS.	

(A) LENGTH: 200 base pairs

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(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
.5		
		,
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1174:	
	GCCTTTTTT ACCCGCCGGA AGCTACAGCT TTTGCCCCCC CAAAAAAACC	50
10	GCCITITITI ACCOCCOGN AGCTRONGCI TITOCCCCC CHARAMACC	. 50
	CCACCCTTTT ACCCACCGCG GACCCAAAAA CAGCAAAAAC CAAGGACCTC	100
	TCCCAACCC AACCCCTCCT TTTTGGCCCT TCCTTCCCCC CCTCCCAGCC	150
: .		
15	CACCCCAGA CACCTCAATC CCCCAAAAGG ATGCCCTAAA CCTCTCCTAA	200
	(2) INFORMATION FOR SEQ ID :1175:	
	(2) Intomation for any to it?	•
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 121 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
0.5		
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1175:	
•	• • • • • • • • • • • • • • • • • • • •	
	GAGGATCCAA AAACCATGGC ATTCATCACG CCCAGCAGGT GTCCCAGCCA	50
30		
· .	TGACTTACCA TAGCAAAACA CAACCACAC CTAACCTGCA TCGCCTAGCT	100
	DI OTOLOGO DE CONTROLOGO DE	
	TACTGATGAT GATGTCCTGG T	12:
35	(2) INFORMATION FOR SEQ ID :1176:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 26 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :1176:	
	AACCAGACAC GCCGACCCGC TGAATC	20
5	(2) INFORMATION FOR SEQ ID :1177:	
	(i) CROUPINGS CUIDACHEDICTICS.	
-	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 178 base pairs	
10	(B) TYPE: nucleic acid	
1 0	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(5) 10101011 111011	:
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1177:	
	GAATCGATCT TGACCTGGCT GCCAGGAATA TCCAGCTTGT TACCGACTGG	50
20	TAAAGAATAA GACCGCTGAT CATAGAGTGA AGCTCCAGGA ATCAGAGAGT	100
	CTCATAGCAA ACCTCGAAAC TGAGGATGAG ATGGTTACAG ATAAAGCCTT	150
	TCAGGATGGA TTMAAGNAMG CAGAGAGG	178
25	(2) INFORMATION FOR SEQ ID :1178:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 144 base pairs	
30	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
35	(*i) SEQUENCE DESCRIPTION: SEQ ID :1178:	
	GGTTAAGTTT TTCATCAAAG ACTCAGGTAC CTATTATCGT TCCCTGGCGA	5(
40	AACTGAGGAG AAAAGTTAAT CAACCAGGTT ACTCCCACAG TTTGCCCGTG	10
	TGTTATGCAT CAGTTATACA GGTATCCCAC CAAGTTCAAG TCAA	14

	(2) INFORMATION FOR SEQ ID :1179:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 233 base pairs	٠
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1179:	
	GACCAGGGAG GAGGTTTAAT CAACTTGGAC CCCCTCCGGC CTAGCCGCCG	50
15	AGGAGGTGCA TTCGGGACAA CCACTAGGTC AGAACGCAGC CTCTCCAGAG	100
	TCCTCAGGCT CGACAACGAT TATCCTGCTG CTATCACGCT TTGATTTACT	150
20	GATCTCGCTG AAAAGACAGA CGCTTTTAGA TACCGAGTCG ATAGGGGGTC	200
20	TGCGGTACTT TTCAGTAGAT AGGTGGTGCT TGT	233
	(2) INFORMATION FOR SEQ ID :1180:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 225 base pairs	
.•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1180:	
35	CGAGGATCCG GGTACCATGG GCCGGATACA ACGAGCTATC ATTACTGCTC	50
	CCATGGCCAA AACCAGCAGT CCCACAATCC CCGTGAAAGG GATGAGGTAA	100
40	TAGCCCAAGG GGAAGGTATT GTCTGGAACC AGAAGCGCCC GAGCCCCCTT	150
40	CTTGTAGRCA AAGAGGGCGC CCAGGTGCTT GGAGCTNCTN TCCCCAATGG	200

	AGGTAGACGG GACCAAGATC TGCTG	225
	(2) INFORMATION FOR SEQ ID :1181:	
5	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 293 base pairs	
	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1181:	•
15	TGAGGATTTA AAAATTCTGG AATATCTATG ATTGATCGTC AACTTTATTC	50
	GATGAATAAG CTTGATGTGG CCTAGTTTTN NGNNNNNTGG NYATGGTNNA	100
	GATGAATAAG CITGATGTGG CCTAGTTTTN NGNNNNNTGG NTATGGTNNA	
•	TCNNNTTANT TTTTTGGTTG TTGTGNATAT TATNGAATAR AMGAATRGNG	150
20		150
	TTTAGAGTTT GGAAGCGGCN RNGCGTARMG NNACTCYACG CTCGCNNCTN	200
•		•
	TTGNNNNACA GMRGGNTCTC TNGGRTGAGT GGRTNCMGTT GGMGGNNTCN	250
25	NNNTAGCTGN NGNGAGRATC AGCTRGCTTN CTTTGNGCTN GCT	293
	(2) INFORMATION FOR SEQ ID :1182:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 252 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1182:	
	(NI) OPPORTED PROCEETION: OPP ID :1102;	
	GAGGATCCGG GTACCATGGC TCTCTCTTC TTTTTTTTCT TTTTCTTGGC	- 50
40		50
	GGATGTGAGA GCTGCCTGAG ATTCAAGGTC ATCCGGCAGC TCAGTCCCCA	100

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•	CCACCTCTGT CTCTGGCTCC ACTGTGGCAT CTTGCTGTTT TTCTTTCTCA	150
	GTCTTCTCTT AGGGAGCTGC CAGAGCTGCC TGGACCTGAG AATTCATTCC	200
5	TTCTGGCTGT TGAGACCCCG TGGACTCCCC TGGATTCCAG AGNNTNATTT	250
	NG	252
	(2) INFORMATION FOR SEQ ID :1183:	
10		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 202 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(w/) anaurwan anaantamiaw ana in 1103	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :1183:	
20	ACGAGGATCT GAATACTCTG GCCTGCAAGT AGAGGCTAAT TCGATGTGTG	50
	AAACTGTAGA TTCGGCTTAA GGTAATAGTC ATTTATAGAC TATTCAATAG	100
25	AGTCAGACTG GTCGAGGCTG GTAAGTGTAG CGGAACGGTT GCTGACTGAT	150
	ATTGTTAGAG TGAGGCTTGT ACTGGTGTGT ATCCGTAGGT GGTCTGCAGT	200
30	GT	202
5 ,0	(2) INFORMATION FOR SEQ ID :1184:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 43 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :1184:

	CAGATCCTCA GCTTTCGTGG TTCACAATTT CTTCAGTCTC TTA	43
	(2) INFORMATION FOR SEQ ID :1185:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 48 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1185:	
15	ACCGTCCTTC TGGTTCATCC TAGCAAAAAT CTCACCATCT TCTATCAC	48
	(2) INFORMATION FOR SEQ ID :1186:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 104 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
•		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :1186:	
	ACATCATCCG AGTCCCCTCT ACAGTGTTCA TTGTGATCGT TGCATCCCCC	50
30		30
	TGGTTTGGAA ATAAAATATA AACTGCCCGG CAAGAGATAA AATTGTATTT	100
	TTTA	104
35	(2) INFORMATION FOR SEQ ID :1187:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 76 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :1187:	
5	CTGGTTCTGT TTCTCGCAGG TGGTAGAGGG GAGGCTGTCC TCTGGTCAGG	5(
3	AGAATCCTAT TCAGTGCTCC CTTAGA	7(
	(2) INFORMATION FOR SEQ ID :1188:	
10 .	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 42 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1188:	
20	AATAGGGCGC GATCAACTCT TAACTTTGAG GAGAACCAAC AA	42
	(2) INFORMATION FOR SEQ ID :1189:	
	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 253 base pairs	
	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1189:	
	GGCGGACGTG CGCGCCTTGT CTTCGCGGCA CCTGGGCCTG AGGTGCGTGC	50
35	CTCCCGGGCC CTCGCCAGCT CCAGATGCGT GAGGAGGACT TCAGAAACCC	100
	GACTGAGAAG TGGAGCAACC CCCAGGAAGG GCCGGACCTG CCTAAATGCC	150
40	GCCAAGGCCT TTTATTTATG GCTAGTTTGC TCTCGTGAAA TACTAACATC	200
	GTTTTAATGG CACTCATCAA GTACGCAAAT GATATGATTT AACCTCGCGC	250

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	AAT	253
	(2) INFORMATION FOR SEQ ID :1190:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 252 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
•.	(xi) SEQUENCE DESCRIPTION: SEQ ID :1190:	
15	GAGGATCCAC CAACCATAGA ACGGCCCTAC TAATGAACCA CACAAGCTAG	50
	TTGCACCACT ATAGAAACAC AAAACTACAC ATCTATACCA ATAAAAATAA	100
20	CAACTACTCC AATTGCCCAT GTGGTATTGT CGCAGACTGA AATGAATTAT	150
	GAATTTAGGT TGGTTACCAA TATCGGCATA AAATAAACTR TGTAAGGCTC	200
•	AMTATGTTGA CAGTAAGCTC TTGTCAGGTG TCTAATGAGG TAAAAGCATT	250
25	TT	252
	(2) INFORMATION FOR SEQ ID :1191:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 178 base pairs	
	(B) TYPE: nucleic acid	
:	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1191:	
40	GAGGATCCAA CAACCATAGA GCACATAAAA ACCGCCCAAC GATCTAACTA	50
	ATATACAACG GCTAACCGGG CCATTCAAAA GCTCGCCCAG ATTAAATGCC	100

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	TGCCGANAGC AAGTACATGG GGAGGATTAC TACTTCCTGG TTGCCAACCA	150
٠	CCCTTCCGGC TGCCCTTGTG TTGACTTG	178
5	(2) INFORMATION FOR SEQ ID :1192:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 156 base pairs	
	(B) TYPE: nucleic acid	•
10 .	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
		* 4
•		
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :1192:	
	GGATCGGCGG TAATCGGTGA GCTCGGTGTC GGGTAAGGGA CCCAGTCCAT	50
	GGATCGGCGG TAATCGGTGA GCTCGGTGTC GGGTAAGGGA CCCAGTCCAT	50
	CGCCACCAAG CGCCAGGAAT GGGCAGCATA AGGGAAGGCT AAGGAGGACT	100
20		
	GCAACAGGTT AGGGCCCTGG AGATTGTATT TAGCAAGGGT ACCTGCGNNG	150
	NGGGCA	156
25	42) THEODY MAD AND TO 1102	
25	(2) INFORMATION FOR SEQ ID :1193:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 99 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :1193:	
	ATTCTGAATC TTTAATGAAA ATCAGCCCAG AGCTTGTTGT AATACAGACA	5(
•	I I I I I I I I I I I I I I I I	
	TAACTGCAAG AGCATGCCCA CAGCTTAGAG AGGTTGTACC AAATTTAGA	. 9
40		

	(2) INFORMATION FOR SEQ ID NO: 1194			
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs			
5	(B) TYPE: nucleic acid			•
	(C) STRANDEDNESS: single			
	(D) TOPOLOGY: linear	•		
10				
•	(xi) SEQUENCE DESCRIPTION: SEQ ID	: 1194:		
	NNNTCCTTC TCCTGCGACA GACA		4.9	24
1.5	(2) INDODUMENON DOD CEO ID NO. 1105			
15	(2) INFORMATION FOR SEQ ID NO: 1195		•	
	/ CEOURNOE OUNDAGERICATION			
	(i) SEQUENCE CHARACTERISTICS:			
	(A) LENGTH: 20 base pairs (B) TYPE: nucleic acid			•
20	(C) STRANDEDNESS: single			
20	(C) STRANDEDNESS: SINGLE (D) TOPOLOGY: linear			
	(b) TOPOLOGI: Timear	•		
25	(xi) SEQUENCE DESCRIPTION: SEQ ID	: 1195:		
	TGTCTGTCGC AGGAGAAGGA			20
30	(2) INFORMATION FOR SEQ ID NO: 1196			
	(i) SEQUENCE CHARACTERISTICS:			•
	(A) LENGTH: 26 base pairs	•		
	(B) TYPE: nucleic acid			•
	(C) STRANDEDNESS: single			
35	(D) TOPOLOGY: linear		•	
	·			
		• • •		
	(xi) SEQUENCE DESCRIPTION: SEQ ID	: 1196:		
40				
	A A NATIONAL CONTRACTOR CANADA			

	(2) INFORMATION FOR SEQ ID NO: 1197				·
	(i) SEQUENCE CHARACTERISTICS:				
	(A) LENGTH: 26 base pairs				•
5	(B) TYPE: nucleic acid				
	(C) STRANDEDNESS: single				
	(D) TOPOLOGY: linear		•	•	
10					
	(xi) SEQUENCE DESCRIPTION: SEQ	ID:	1197:		
	TTNNTCTCGG ACAGTGCTCC GAGAAC		٠.		26
15	(2) INFORMATION FOR SEQ ID NO: 1198				
	(i) SEQUENCE CHARACTERISTICS:				
	(A) LENGTH: 22 base pairs		•		
	(B) TYPE: nucleic acid				
20	(C) STRANDEDNESS: single		٠.		•
	(D) TOPOLOGY: linear	•			
			•		
25	(xi) SEQUENCE DESCRIPTION: SEQ	ID:	1198:		:
	GTTCTCGGAG CACTGTCCGA GA				22
	(2) INFORMATION FOR SEQ ID NO: 1199				
30					
	(i) SEQUENCE CHARACTERISTICS:				
	(A) LENGTH: 23 base pairs	٠			
	(B) TYPE: nucleic acid				
	(C) STRANDEDNESS: single				
35	(D) TOPOLOGY: linear				
	(will chounted becomes and	-	1100		
40	(xi) SEQUENCE DESCRIPTION: SEQ	īn:	1199:		
40	CMMCMCCCA CA CMCCCCCCA CA CA				

•	(2) INFORMATION FOR SEQ ID NO: 1200			
	•			
	(i) SEQUENCE CHARACTERISTICS:			
•	(A) LENGTH: 23 base pairs	. •		
5	(B) TYPE: nucleic acid			
	(C) STRANDEDNESS: single			
	(D) TOPOLOGY: linear			
•				
10				
	(xi) SEQUENCE DESCRIPTION: SEQ	ID : 1200:		
	GTTCTCGGAG CACTGTCCGA GAC			23
		•		
15	(2) INFORMATION FOR SEQ ID NO: 1201			
	() GROUDNED GUADA GROUDE		•	
	(i) SEQUENCE CHARACTERISTICS:			٠.
	(A) LENGTH: 22 base pairs		•	
20	(B) TYPE: nucleic acid			
20	<pre>(C) STRANDEDNESS: single (D) TOPOLOGY: linear</pre>			•
	(b) ToroLogi: Timear	•		•
				*
25	(xi) SEQUENCE DESCRIPTION: SEQ	ID : 1201:		
	CTGTCTGTCG CAGGAGAAGG AA			22
	orotototo chomod an			22
·	(2) INFORMATION FOR SEQ ID NO: 1202			
30				
	(i) SEQUENCE CHARACTERISTICS:			
	(A) LENGTH: 22 base pairs			
	(B) TYPE: nucleic acid	•		
	(C) STRANDEDNESS: single	•	•	
35	(D) TOPOLOGY: linear			
			•	
	(xi) SEQUENCE DESCRIPTION: SEQ	ID : 1202:		
40				
	CTCTCTCTCC CAGGAGAAGG AG			22

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	(2) INFORMATION FOR SEQ ID NO: 1203	
•	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 17 base pairs	
5	(B) TYPE: nucleic acid	
J	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	•
	(b) 10102001. 11.1021	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1203:	
	AGCTCGGCTC GAGTCTG	17
15	(2) INFORMATION FOR SEQ ID NO: 1204	
•	4 A GROUPNOR OUR DE OMBRE CONTO	
	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 24 base pairs	
20	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(b) Totoboot. Timeat	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1204:	
	GCGACAGACA GCAGACTCGA GCCG	24
	-	
	(2) INFORMATION FOR SEQ ID NO: 1205	
-30		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 14 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
35	(D) TOPOLOGY: linear	
·		
	(vi) SPONENCE DESCRIPTION. SPO ID . 1205.	

(X1) SEQUENCE DESCRIPTION: SEQ ID :]

40

GATCCGGCTC GAGT

· ·

					•
	(2) INFORMATION FOR SEQ ID NO: 1206		,		-
	(i) SEQUENCE CHARACTERISTICS:	•	. ,		
	(A) LENGTH: 18 base pairs				
5	(B) TYPE: nucleic acid				
5	(C) STRANDEDNESS: single				
	(D) TOPOLOGY: linear				
	(b) ToPoLogI: Timear				
•					
10	(CROVENCE DESCRIPTION, CEO	TD - 120	ne.		
	(xi) SEQUENCE DESCRIPTION: SEQ	ID : 12	00:		
	CCGAGAACAC TCGAGCCG				18
	330.00.00.00000		•	••••	
15	(2) INFORMATION FOR SEQ ID NO: 1207				
10	(2) Intommitted for pag 15 no. 125.				
•	(i) SEQUENCE CHARACTERISTICS:				
•	(A) LENGTH: 17 base pairs				
	(B) TYPE: nucleic acid			•	
20	(C) STRANDEDNESS: single				
	(D) TOPOLOGY: linear			•	
	(0) 10:02001: 11:1001				
		*	•		
				,	
25	(xi) SEQUENCE DESCRIPTION: SEQ	ID : 12	07:		
		•		•	
	GTAAAACGAC GGCCAGT				17
	(2) INFORMATION FOR SEQ ID NO: 1208	•			
30					
	(i) SEQUENCE CHARACTERISTICS:				
•	(A) LENGTH: 17 base pairs	•			
	(B) TYPE: nucleic acid	•			
	(C) STRANDEDNESS: single				•
35	(D) TOPOLOGY: linear				
		ř			
	(vi) SPOUPNCE DESCRIPTION. SEC	TD • 12:	08.		
40	(xi) SEQUENCE DESCRIPTION: SEQ	TD : 12	00:		
70	CGAGGTCGAC GGTATCG				17
	COUGATONIC CATUTOR				1/

	(2) INFORMATION FOR SEQ ID NO: 1209	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 17 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1209:	
	CGAGGTCGAC GGTATCG	15
15	(2) INFORMATION FOR SEQ ID NO: 1210	
	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 56 base pairs	
•	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1210:	
* .	TACGTTCGAC AAGCTTGAAT TCGCGGCCGC TTTTTTTTTT	50
	TTTTTT	
30	*****	56
	(2) INFORMATION FOR SEQ ID NO: 1211	
	(i) SEQUENCE CHARACTERISTICS:	
*	(A) LENGTH: 11 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
40	(with appurpues appropriately and an	
	(xi) SEQUENCE DESCRIPTION: SEO ID : 1211:	

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		(:w							

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(2) INFORMATION FOR SEQ ID NO: 1212

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(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 24 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID : 1212:

15 GGTGGCGACG ACTCCTGGAG CCCG

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- (2) INFORMATION FOR SEQ ID NO: 1213
 - (i) SEQUENCE CHARACTERISTICS:

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- (A) LENGTH: 24 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID : 1213:

TTGACACCAG ACCAACTGGT AATG

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In the above SEQUENCE LISTINGS, some sequences are preferred because they fall into the category of sequences referred to hereinbefore which exhibit no more than 90% homology to a human sequence known per se. The preferred sequences in these terms are all of sequences SEQ ID Nos 1 to 1193, EXCEPT FOR SEQ ID Nos:

40 85, 117, 177, 197, 223, 248, 317, 354, 355, 483, 829, 1057, 594, 595, 597, 164, 427, 420, 58, 67, 374, 373, 501, 569, 188, 550, 904, 932, 97, 89, 134, 433, 434, 357, 4, 6, 11, 336, 529, 544, 545, 549, 1037, 847,

612.

870, 871, 872, 873, 875, 876, 579, 199, 524, 544, 513, 380, 276, 291, 615, 623, 627, 634, 635, 648, 652, 617, 619, 684, 697, 718, 720, 1127, 1145, 1148, 1164, 938, 587, 589, 588, 241, 243, 335, 61.

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CLAIMS:

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- 1. A nucleic acid fragment encoding a gene product or portion thereof and comprising any one of:-
- (a) a sequence selected from SEQ ID Nos 1 to 1193;
- (b) an allelic variation of a sequence as defined in (a); or
- 10 (c) a sequence complementary to (a) or (b).
 - 2. A nucleic acid sequence as set out in any one of SEQ ID Nos 1 to 1193, or a complement or allelic variation thereof.
- 3. A sequence as claimed in claim 2 and which exhibits no more than 90% homology to a human sequence known per se.
- A nucleic acid fragment comprising a portion of a sequence as defined in claim 2 or claim 3 of sufficient size such that a probe of the same size and exhibiting complementarity to said portion can hybridize to said sequence as defined in claim 2 or claim 3.
 - 5. A fragment as claimed in claim 4, wherein said portion is at least 15 bases in length.
 - 6. A fragment as claimed in any one of claims 1, 4 or 5 and encoding at least a portion of a biologically active polypeptide.
- 7. A nucleic acid sequence as claimed in claim 2 or claim 3 and 30 encoding at least a portion of a biologically active polypeptide.
 - 8. A DNA construct comprising a fragment as defined in any one of claims 1, 4, 5 or 6 or a sequence as defined in any one of claims 2, 3 or 7, together with a control or regulatory sequence.
 - 9. A construct as claimed in claim 8 which encodes a fusion protein comprising a known protein and the polypeptide encoded by said fragment or sequence.
- 40 10. A construct as claimed in claim 9, wherein the fusion protein encoded is a cleavable fusion protein having an endopeptidase recognition site positioned between codons corresponding to said known

protein and said fragment or sequence.

- 11. The use of a fragment as defined in any one of claims 1, 4, 5 or 6 or a sequence as defined in any one of claims 2, 3 or 7 to produce a gene.
- 12. A DNA fragment comprising a gene obtainable by the use defined in claim 11.
- 13. An expression vector comprising a fragment as defined in any one of claims 1, 3, 5 or 6, a sequence as defined in any one of claims 2, 3 or 7, a DNA construct as defined in any one of claims 8 to 10, or a DNA fragment as claimed in claim 12, positioned such that that nucleic acid sequence which encodes the polypeptide corresponding to said
- fragment, sequence or DNA fragment is in operable reading frame with a control or regulatory sequence.
 - 14. A vector as claimed in claim 13, wherein said vector control or regulatory sequence comprises a regulatable promoter.

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15. Host cells which incorporate as a heterologous part of their expressible genetic information a fragment as defined in any one of claims 1, 3, 5 or 6, a sequence as defined in any one of claims 2, 3 or 7, or a DNA fragment as defined in claim 12.

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- 16. A process for the production of a polypeptide comprising cultivating host cells as defined in claim 15.
- 17. An antibody directed against a polypeptide obtainable by the performance of a process as defined in claim 16.

- 18. An antibody as claimed in claim 17 and which is monoclonal.
- 19. A novel gene product or portion thereof encoded by a fragment as defined in any one of claims 1, 3, 5 or 6, or encoded by a sequence as defined in any one of claims 2, 3 or 7, or encoded by the gene comprised in a DNA fragment as defined in claim 12.